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MISSOURI BOTANICAL GARDEN

Bulletin

January/February 2004 Vol. 92, No. 1

An Orchid Romance

Orchid Show 2004

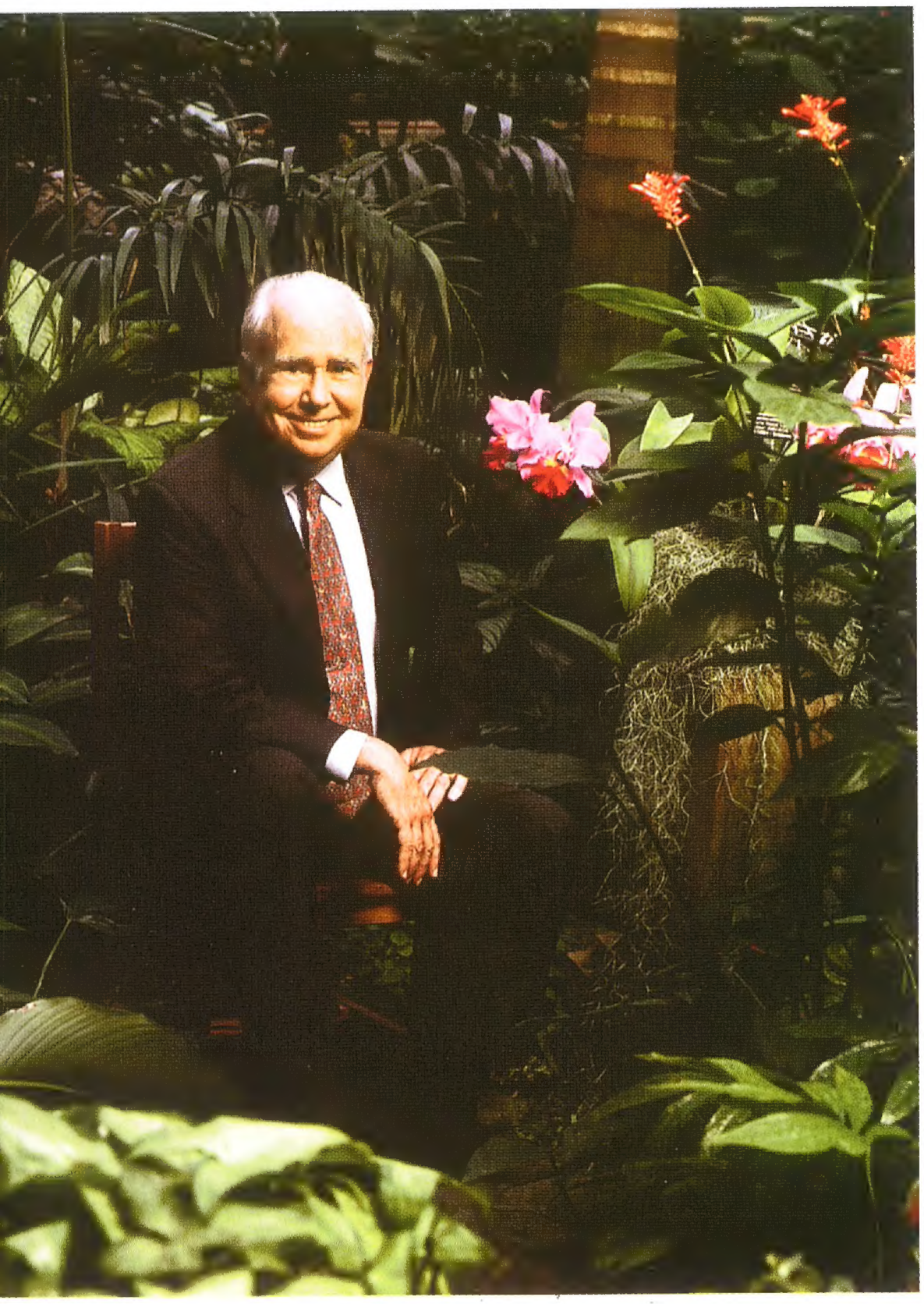

PHOTO BY PETER HOWARD

To discover and share knowledge
about plants and their environment,
in order to preserve and enrich life.

–mission of the Missouri Botanical Garden

from the director...

Dramatic actions in 2004, largely resulting from the successes of the Stewards of the Earth Campaign, will set the tone for the Garden in the future. There are many additional goals to reach and we depend on each of you for your continued support. As we reach each significant milestone in the Garden's history, I am grateful for all the contributions of advice, volunteer work, and funds, which make these achievements possible.

The opening of the Commerce Bank Education Center, described in the last issue of the *Bulletin*, was one such extraordinary outcome of the Campaign. I am pleased to announce in this issue plans for the much-anticipated Doris I. Schnuck Children's Garden, which will be a transforming development in attracting young families here and in enriching educational programming

Scheduled for completion in 2005, the Children's Garden has been wonderfully designed to lead children and their parents and grandparents through a series of interactive displays and exhibits that will immerse them in entertaining 19th-century Missouri adventures. They will discover the importance of plants in their lives today, even as they learn about Mark Twain and Huck Finn; Daniel Boone; Lewis, Clark, and Sacagewea; and our founder, Henry Shaw. It is through the leadership of trustee Scott Schnuck, and the generosity of the Schnuck family and others such as A.G. Edwards and Robert and Jane Tschudy, that the Garden will be able to offer this exciting new attraction as a benefit to the entire St. Louis region. We are very grateful for their support.

I am appreciative to all of our members, trustees, and other friends who have participated in planning these striking new ways to achieving the Garden's mission in the years to come. I invite you to join us in this new year as we embark on these glorious adventures together!

Peter H. Raven

Peter H. Raven, *Director*

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MISSOURI BOTANICAL
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GARDEN LIBRARY

editor's note...

So, it's finally here...2004, the 200th anniversary of the journey of Lewis and Clark across the continent and the centennial of the 1904 World's Fair. Henry Shaw arrived in St. Louis just 16 years after the voyage of discovery, and the Garden he founded in 1859 would become the biggest attraction outside of Forest Park for Fairgoers in 1904. The first Kingshighway overpass was constructed then to accommodate trolley cars for tourists to the Garden.

Today, MBG is a National Historic Landmark, the oldest botanical garden in the nation. Visitors can admire our historic buildings and greenhouses, the same structures admired by Fairgoers. Many of the plants recorded by the Lewis and Clark expedition are represented on Garden grounds. Pick up your map to the Lewis and Clark Plant Trail and do some exploring of your own. [The 2004 spirit of Missouri Adventure also guides the groundbreaking on the new Doris I. Schnuck Children's Garden, read on to page 4.]

January/February is the season for tropical getaways and romance, and the Garden offers both right here at home. Take a vacation to the Climatron this winter, relax beneath the palms in this tropical jungle, breath easy in the lush humid air, and listen to the sounds of the waterfall and twittering songbirds. Then in February, it's the romance doubleheader: Orchid Show 2004—An Orchid Romance—and the peak camellia bloom in the Linnean House. Treat yourself or your sweetie to a romantic walk among the flowers. The Garden offers gifts in all four seasons: don't miss this sentimental prelude to spring.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

DORIS I. SCHNUCK CHILDREN'S GARDEN

A Missouri Adventure

Visit the Garden on almost any day and you'll see children enjoying themselves. From family visits to birthday parties to school classes, kids experience the beauty of nature in the Garden, and have a whole lot of fun too. They feed the koi fish in the Japanese Garden, water the Talking Orchid in the Climatron, visit the Venus Flytrap, and get lost in the Kaeser Maze. Children enjoy many aspects of the Garden, but there's never been an area of the Garden especially for kids…until now.

Imagine a secret garden where children run and play in caves and wetlands, explore Missouri history, learn about endangered plants in a "graveyard," and track invasive species on Most Wanted posters, all centered around a tree-top adventure. For two years, Garden strategists have imagined all this and more.

The Garden's strategic plan calls for the development of an exciting, dynamic new garden to provide a compelling attraction to young families and to introduce children at their most impressionable ages to the significance of plants and nature. The Children's Garden will be experiential, nurturing the child's sense of wonder and curiosity. The children of the Donald Schnuck Family have provided the lead gift to name the new Children's Garden in honor of their mother, Doris I. Schnuck.

"Our family is delighted to be able to honor our mother with this lasting tribute," says Scott Schnuck, Garden trustee and chairman of the planning committee. "The children's garden will raise awareness of the importance of plants and ecology, while providing a fun, new attraction for families in St. Louis."

The Garden is pleased to acknowledge the generosity of not only the Schnuck family, who contributed the lead gift, but also the gifts of A.G. Edwards and Robert and Jane Tschudy.

Garden Director Peter Raven relates the story of how he first became interested in botany. "As a little boy, I was entranced by

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

On May 7, the Missouri Botanical Garden announced a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. The campaign, which also targets support for the 79-acre St. Louis campus and the Shaw Nature Reserve in Gray Summit, already has raised in excess of $60 million and seeks an additional $11 million in private gifts by 2005. The funds will support Garden research, education, and the facilities required to enhance interpretation and display.

a butterfly's beauty and became curious about how it flew, how it lived, why it was so beautiful." From this stage of casual curiosity, Raven was motivated to study first butterflies, and then the plants they feed on and shelter in. At age 14, he identified a plant near his home that was thought to be extinct. Today, it is named for him, and the rest is history.

"For many people, the understanding of science and scientific process comes from individual experience," says Raven. "Through the generosity of the Schnuck family and other donors, this garden will provide a stimulating environment for the early experience of childhood wonder at the natural world."

Among the most innovative and transforming developments at the Garden in many years, the Doris I. Schnuck Children's Garden is in the planning stages and scheduled to open in 2005, so here for the first time, Garden members receive a sneak preview of the still-evolving plans.

visitors of the central importance of water and rivers in St. Louis history, and paths lead off to the variety of educational "adventures" that await.

The *Cave Experience* recreates a key component of the Missouri landscape, and offers an opportunity to learn about plant and animal adaptation, and previous Native American cultures.

The *Wetlands* explores the pond, swamp, and river ecosystems that form the lifeblood of Missouri, where kids can cross the "river" on a ferry raft and see the abundant life in pond samples.

The *Canopy Climb* will provide sweeping vistas of the Garden from the tops of towering trees where kids can get up close and personal with historic mature trees.

The *Potter's Field* is an imaginary graveyard of extinct and endangered plants. The organic cycle of life will be explored in

PHOTOS BY TIM PARKER, DIANE WILSON, AND BRYAN RECKAMP

The Children's Garden will occupy a two-acre plot behind the Climatron, where Shaw's famous Osage Orange Allée is located. Far from threatening these venerable trees, the new garden incorporates them into the central feature, the Canopy Climb, where they become the environment for an elevated children's retreat traversing the treetops with boardwalks and tree houses.

Dr. Luther Williams, the William T. Kemper Director of Education and Interpretation, is devising an extensive educational program that relates to the unique learning opportunities afforded by the new garden's historic theme. While completely integrated into the Garden's educational programs, the new Children's Garden will nevertheless be first and foremost about parent-child interaction.

Children and parents will enter the new garden through the *Entry Walk*, an enticing introduction to the garden to embark on a 19th-century Missouri adventure, made possible through the generosity of A.G. Edwards.

Adventure Plaza introduces visitors to the spirit of discovery in Missouri through the historical characters of Lewis, Clark, and Sacagawea; Mark Twain; and Henry Shaw. A waterfall reminds the Ghost Tree, leaving lasting impressions of the importance of conservation.

The *Village* is a central gathering place where children can learn about economic plants—plants used for food, medicine, clothing, shelter, and other important functions.

The garden's primary purpose is to give young children the opportunity to learn about the importance of plants in a fun and engaging way. Through the interactive themes of Missouri adventure, history and botany will be brought to life with an appeal for both kids and adults. The Doris I. Schnuck Children's Garden will have a major, positive effect on the Missouri Botanical Garden for years to come and create an exciting new children's attraction for the entire St. Louis metropolitan area. Come see this exciting new garden take shape when construction begins later this year.

PHOTO BY TRENT FOLTZ

you can help!

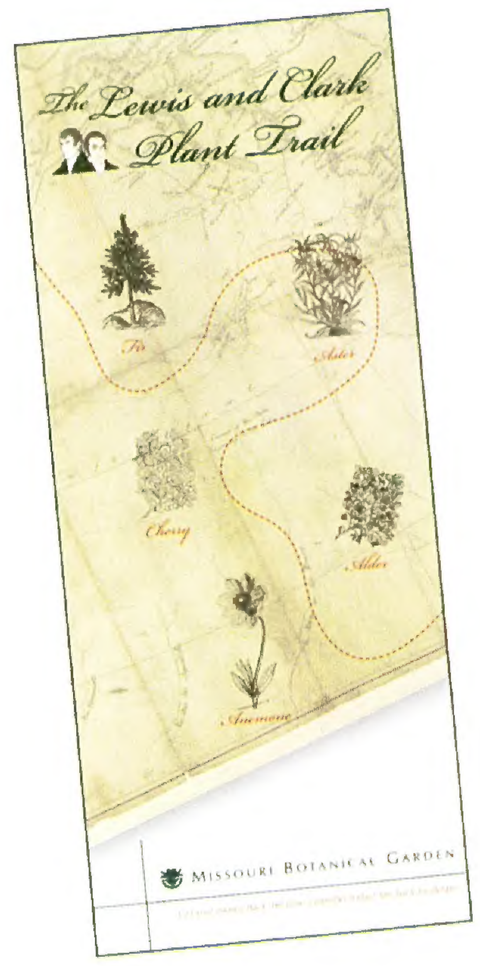
"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patty Arnold. For more information on how you can help, please contact her office at (314) 577-5120.

JANUARY

Lewis & Clark Bicentennial

Two hundred years ago, an expedition led by Meriwether Lewis and William Clark set out from the St. Louis area to explore the Louisiana Purchase, newly commissioned by President Thomas Jefferson. In his letter to Lewis June 20, 1803, Jefferson detailed his instructions for the crew to observe and describe the natural world. He wanted records of everything—the geography, soils, minerals, animals, and climate of the lands passed through—as well as "its growth & vegetable production, especially those not of the US...the dates at which particular plants put forth or lose their flower or leaf."

Over the course of a 29-month odyssey into unknown and sometimes hostile territory, Lewis and Clark gathered a treasure trove of information and specimens. Today, the Garden's 79 acres contain dozens of plants seen and recorded by Lewis and Clark on their westward journey. In commemoration of their achievement, we invite you to follow in their footsteps and trace the Lewis and Clark Plant Trail at the Garden. Pick up your map today at the ticket counter, free with admission.



Lewis and Clark plant map: free with admission

FOR MEMBERS ONLY...

Research: Behind the Scenes and in the Field

Visitors to the Garden's gorgeous 79 acres in St. Louis see only one aspect of MBG's important work. The "unseen Garden" consists of 50-plus Ph.D. botanists researching around the globe to discover and share knowledge about plants and their environment. MBG Curator of Ethnobotany Jan Salick will discuss the Garden's efforts to preserve the "Medicine Mountain" area of Tibet, one of the most biologically diverse ecosystems on Earth. Prior to the presentation, interested members may take a behind-the-scenes tour of the Garden's cutting-edge research facility, the Monsanto Center.

Wed., Jan. 14
10 a.m. tour of the Monsanto Center
11 a.m. slide presentation and lecture
Monsanto Center, 4500 Shaw Blvd.

An Orchid Romance Soirée

Enjoy candlelight, soft music, and dazzling floral "jewels" among romantic ruins at the members-only sneak preview of the 2004 Orchid Show. Be the first to tour this magnificent display of one of the world's premier orchid collections, seen only once a year in its complete grandeur. Musical entertainment will be provided along with a cash bar. A special dinner buffet will be available in the Garden Café for $16.95 per person. The Garden Gate Shop will stay open late. Call Brenda Zanola at (314) 577-0879 for more details.

Fri., Jan. 30
5 to 8 p.m.
Ridgway Center

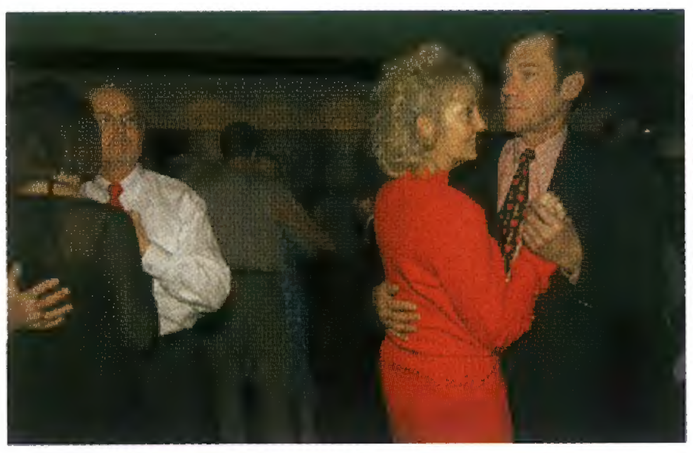


PHOTO BY DIANE WILSON

Dance the night away with your Valentine.

Valentine's Day Dinner Dance

Treat your special someone to a romantic evening at the Garden this Valentine's Day. Enjoy a gourmet dinner in Monsanto Hall, stroll through the orchid show, visit the fragrant Linnean House where the camellias will be in full bloom, and dance the night away. Dinner from 6:30 to 8 p.m. Music and dancing from 7:30 to 10:30 p.m. Cash bar. Dinner by reservation only ($60 per person). Seating is limited, so please call (314) 577-9500 soon to reserve your space. Reservations must be received by Mon., Feb. 9

Menu—Spinach Salad with toasted walnuts, gorgonzola, and golden raisins in a balsamic vinaigrette. Grilled Atlantic Salmon with wild mushroom sauce OR Grilled Pork Loin Chop with apple cranberry chutney. Both entrees are served with sundried-tomato risotto, steamed asparagus, and carrots. Almond Tart with raspberry sauce.

Sat., Feb. 14
6:30 to 10:30 p.m.
Ridgway Center

Meet Me in St. Louis, Louis

All the world came to St. Louis in 1904, and not just to Forest Park. Did you know that the Kingshighway overpass was first constructed so that streetcars could shuttle fair-goers to the Garden and back? Here in time to celebrate the centennial of the St. Louis World's Fair is local historian Sue Oertli. Sue brings the Fair to life with her mother's personal journal and photographs taken by her grandfather. Copies of the book, *The World Comes to St. Louis: A Visit to the 1904 World's Fair* by Dorothy Daniels Birk will be available in the Garden Gate Shop.

Fri., Feb. 27
11 a.m.
Ridgway Center

FEBRUARY

Orchid Show 2004

On January 31, prepare to be romanced by thousands of tropical orchids! A welcome respite to the short, gray days of January, An Orchid Romance 2004 finds the Garden's collection of colorful blooms in a setting of classical ruins. Children will delight in playing "find the flower" in the tangle of vines and shrubs. These romantic remnants of a Mediterranean village—perhaps Pompeii, long destroyed by a volcano—are now overgrown with lush green foliage and mosses, studded throughout with the Garden's award-winning collection of rare and exotic orchids, visible in all their glory only once a year to the public.

Orchid shapes, sizes, and colors are incredibly diverse and many are fragrant. Some smell fruity, some like chocolate and coconut, others have very heavy "floral" scents. But watch out! Although it may surprise people sniffing their way through the show, some orchids are little "stinkers" with a powerful smell of decay to attract flies.

Orchids constitute the largest living collection at the Garden, with some specimens dating back over 100 years. The Garden has over 8,100 orchids, representing some 2,500 species, varieties, and hybrids, including many rare and unusual plants. A sample of the orchid collection can be viewed year-round in the atrium of the Beaumont Room in the Ridgway Center and in rotating Climatron orchid displays. However, only in February and March during the annual orchid show are visitors able to view this living collection en masse.

It pays to be a repeat visitor to the orchid show: the display changes slightly from week to week, as spent blooms are swapped out with fresh. "We start out with about 700 to 800 orchids in the show, and I switch out approximately anywhere from 50 to 100 spent orchids a week. I try to get as much diversity in the show as possible," said Babs Wagner, horticulturist and orchid grower.

The horticulture division's greenhouse and floral display staff and an elite group of volunteers plan and prepare for the show well in advance. "My volunteers are busy for months beforehand prepping the orchids for the show," said Wagner. "I wouldn't be able to do it without them." See page 15 for a profile on this dedicated crew.

Throughout the show, visit the Garden Gate Shop for an outstanding selection of orchid plants and gardening accessories. Proceeds support the Missouri Botanical Garden.

The Missouri Botanical Garden thanks the Chase Park Plaza for its generous sponsorship support of An Orchid Romance 2004.

An Orchid Romance 2004
Sat., Jan. 31 to Sun., Mar. 14; 9 a.m. to 5 p.m.; Orthwein Floral Display Hall
Garden admission plus $3 for adults. Members and children under 12–free.

Celebrate the Gospel

Sun., Feb. 8 & 15
3 p.m.
Ridgway Center

What better time of year than Black History Month to celebrate one of the most heartfelt expressions of African-American culture—gospel singing. Gospel traces its roots back to spirituals and work songs of the 19th century, evolving out of the black church experience, but its message of "good news in bad times" resonates across all cultures.

The 14th annual "Celebrate the Gospel" features performances by two of the region's most lauded choirs, Mother Lofties and the Lofties Sisters on February 8, and the Voices of St. Alphonsus from St. Alphonsus "Rock" Church on February 15. This event is very well attended and seating is on a first-come, first-served basis. Arrive early to obtain the best seats.

Sugar, Spiced, Everything Iced

Sat. & Sun., Feb. 21 & 22
10 a.m. to 4 p.m.
Ridgway Center

Whether you have big time home-baking ambitions, plans for a grand wedding reception, or just a big sweet tooth, you should come down to sample the goodies at the Garden's annual cake-decorating event. Visitors will find a stunning collection of wedding and all-occasion cakes, cookies, and candies adorned with exquisite, handcrafted botanical decorations.

Throughout the weekend, enjoy an elaborate display by some of the most creative cake and confection designers in the metropolitan area. Watch as master sugar artists demonstrate tips and techniques of the trade.

NEWS

Thank you!

The lovely holiday wreath display would not be possible without the participation of our many designers and our warmest appreciation goes to them: Ardell Burchard, Fresh Art, Artistry of Clayton, Bitter Sweet Botanicals, Dale Rohman Enterprise, Inc., Eckert Florist, Ken Miesner's Flowers, MKS Design Inc., Montano Grant, Studio PP – Creative Botanical Garden, twigs & MOSS, Wildflowers, and Wild Thang Farm.

PHOTO BY DIANE WILSON

Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the metropolitan region. Become a Corporate Partner today! For information, call Sharon Mertzlufft at (314) 577-9495. We are pleased to recognize corporations who have recently joined, renewed, or upgraded their Corporate Partner membership.

Shareholder Level ($10,000–$24,999)
Anheuser-Busch Companies, Inc.

Underwriter Level ($5,000–$9,999)
Brown Shoe Company, Inc.
U.S. Bank

Supporter Level ($1,000–$4,999)
Belden Inc.
Catering St. Louis, Inc.
First National Bank of St. Louis
Forms Distribution Corporation
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Year-End Appeal

As 2003 drew to a close, you may have noticed additional mailers from the Garden. Every December, the Garden makes a year-end appeal for gifts to the Henry Shaw Fund, our most critical source for general operating support. Once again, Garden members have led the way in contributions, and several thousand dollars have been raised to date. If you have not done so already, please consider making a gift to the Henry Shaw Fund. Your generosity will help the Garden continue the many programs and exhibits offered each year, expand our science and math education programs, strengthen our efforts to promote conservation and biodiversity, and preserve the beauty of more than 79 acres of horticultural displays. To make a gift to the Henry Shaw fund, please call Sharon Mertzlufft at (314) 577-9495.

Ring in the New Year: Volunteer!

Make a difference…again. As a member of the Garden, you are already making a difference with your financial contribution. By volunteering, you can make a difference again—with the contribution of your time. Volunteer opportunities exist in almost every area of the Garden, including Communications, Education, Events and Visitor Service, Membership, Research, as well as Horticulture and offsite locations like the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and Shaw Nature Reserve in Gray Summit. This year, be among the first to volunteer at the Garden's new upscale boutique, the Little Shop Around the Corner. For more information about volunteering, call Jackie Juras at (314) 577-5187.

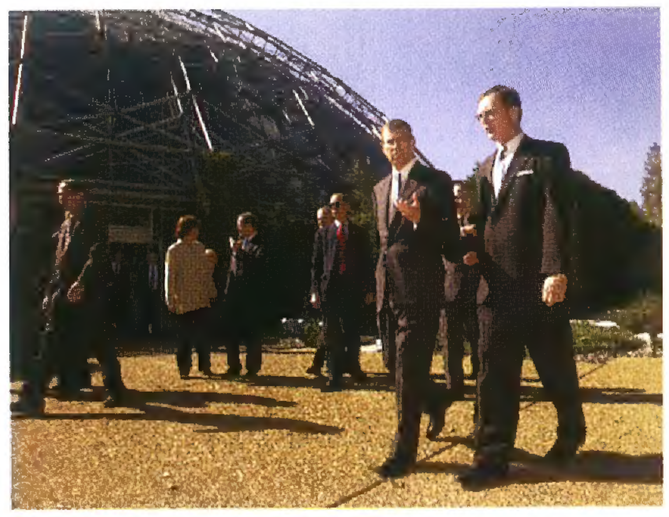

PHOTO BY TIM PARKER

HRH Prince Andrew is escorted on his visit to the Garden by Jack Thomas, Jr., president of the board of trustees.

The Royal Visit

On Thursday, October 23, His Royal Highness Prince Andrew the Duke of York visited the Garden on his official business tour through St. Louis. Trustees greeted the prince and presented him with a gift of original artwork by Garden illustrator Yevonne Wilson-Ramsey in Spink Pavilion. The prince shook hands and joked with the crowd, "I've just inherited some acreage and I don't want to look outside lest I be inspired as Shaw was." Later, trustees Jack and Debbie Thomas, Ambassador Stephen Brauer and his wife Kimmy, and Andrew and Barbara Taylor, among others, escorted the Prince on his of the Climatron, by Garden horticulturist Deborah Lalumondier.

Book a space at the Garden for your meeting, wedding, party, or special event any time of the year.

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A Spirited Philanthropist

On Friday, November 14, the Association of Fundraising Professionals awarded Garden trustee Evelyn Edison Newman their annual Spirit of Philanthropy Award. The award recognizes individuals whose lifetime achievements have had a major impact in St. Louis through contributions of service, time, and leadership.

Throughout her remarkable career, Evelyn has contributed countless hours and ideas to numerous organizations. She is the force behind many of the most successful and beloved charitable concepts in the St. Louis area: Gypsy Caravan for the St. Louis Symphony, the Scholarshop for the Scholarship Foundation, The Country Store for the Missouri Historical Society, and her newest endeavor… the Garden's own Little Shop Around the Corner (see below for details).

When civic leaders needed a passionate St. Louisan to work with the national developer in restoring Union Station, Evelyn was an obvious choice. For over three years, she worked tirelessly, inspiring top civic and business leaders to become involved in restoring one of the city's dilapidated treasures into the jewel it is today.

In 1995, Evelyn gave another amazing gift to the St. Louis community. After a trip to Thailand, Evelyn decided the St. Louis region needed to add a Butterfly House to its list of cultural attractions. After negotiating a deal with St. Louis County, Evelyn and her team raised all of the funds necessary to build the facility and today, visitors throughout the metro area delight in the Sophia M. Sachs Butterfly House in Faust Park.

"Without Evelyn's vision and dedication, the non-profit community in St. Louis would not know the level of success it enjoys today," says Patty Arnold, Director of Development at the Garden. "She is an inspiration to everyone around her."

PHOTO BY KEVIN McCARTY

Jim Weidman, president of the AFP, presents the Spirit of Philanthropy award to Evelyn E. Newman.

Won't you be our Valentine?

In a lovely Garden neighborhood, there is a Little Shop. The windows bloom with cherished objects winking in the sunlight. Here, special gifts are carefully tended until they find new homes. Filled to the brim with the desirable, exquisite, and, sometimes, the unusual, it attracts the savvy shopper and the discriminating donor alike…

On Saturday, February 14, the dream becomes reality. Located at the intersection of Shaw and Vandeventer in the burgeoning Garden retail district, the Little Shop Around the Corner will open its doors this Valentine's Day to greet the sophisticated shoppers of St. Louis. Sweets will be served for all your sweeties, along with coffee, during the open house from noon until 4 p.m.

LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

Bring a donation and you'll receive a coupon for an additional 10% off in the Garden Gate Shop. All proceeds from sales at the Little Shop and Garden Gate Shop benefit the Missouri Botanical Garden.

While we're not yet open for business, we are open for donations. So won't you wear your Garden-green heart on your sleeve and consider donating your cherished items? Whether you are getting a head start on spring-cleaning, downsizing from a house to a condo, or just redefining your style, please consider this additional, tax-deductible way to support the Garden. For questions about how or what to donate, please call Little Shop Manager Judy Sokolik at (314) 577-0891.

GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

PHOTOS BY DALE DUFER

The EarthWays Home in Grand Center: then, now, wow!

EARTHWAYS HOME

Celebrating a Decade Making a Difference

The Garden's EarthWays Home opened to the public in 1994. Anniversary events throughout 2004 will celebrate everyday "green" practice, the specialty of Gateway Center for Resource Efficiency, which is the Garden division working at the EarthWays Home.

"Instead of one big birthday event," says Deborah Chollet, Director of Gateway Center, "we're saying, 'Happy Earthday' everyday." Special exhibits, demonstrations, and speakers are planned in addition to the regular monthly Open House Tours. Visitors can learn about innovations in energy, recycling and resource-efficient landscaping, and explore the history of the EarthWays Home, which was built in 1885.

As an abandoned shell, the building that would become the EarthWays Home was a prime candidate for a gut rehab in the early 1990s. A three-year, half-million dollar renovation recycled the derelict urban property into an energy-saving model of environmental building products and technologies. When the project was being planned, many features of the EarthWays Home were hard to find, costly, and experimental, but the investment paid off. Improvements like recycled-content super-insulation, steel framing, geothermal heating and cooling, compact fluorescent lighting, and Energy Star appliances are now widely available and cost-competitive with traditional building elements.

"Visitors appreciate the good sense demonstrated in the EarthWays Home," says Dr. Raven. "People are willing to think about environmental issues and to change purchasing choices and everyday habits when they see how individual actions add up to significant value for themselves and their families."

An example of this cumulative power occurred at the 2003 EarthWays Home Energy Festival, which included a unique Fall Bulb Sale—compact fluorescent light bulbs for ninety-nine cents apiece! More than 14,000 bulbs purchased will save their owners over $340,000 on energy bills, while preventing pollution equivalent to taking 750 cars off the road. The Energy Festival and Change-A-Light Bulb Sale are slated to return in October, just one of many celebrations during the Tenth Anniversary of the EarthWays Home.

Native Plant Landscaping Workshop

Get ready to Grow Native! Using Missouri's native plants in corporate, municipal, and residential landscapes is the theme of a professional landscape workshop sponsored by the Shaw Nature Reserve in collaboration with Grow Native! of the Missouri Department of Conservation, the St. Louis Chapter of the American Society for Landscape Architects, and the St. Louis Horticultural Co-op.

"We have over 3,000 native plant species in Missouri, and many of them do a much better job of controlling storm water run-off, supporting wildlife and providing color and texture than their exotic counterparts," says Scott Woodbury, program coordinator for Shaw Nature Reserve. The seminar is open to landscape professionals and the public.

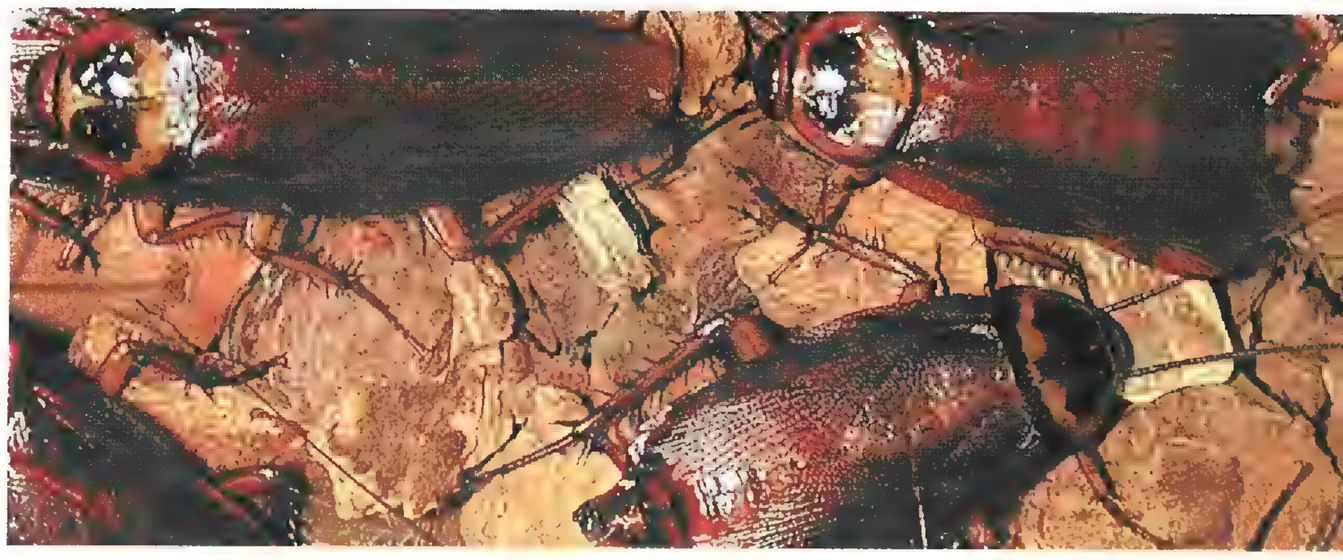
The seminar takes place on Thursday, February 12, from 8:30 a.m. to 5 p.m. at the Maritz Inc. world headquarters in Fenton. Cost is $35 and includes lunch. Advance registration is required, so please call (636) 451-3512 x6075.

BUTTERFLY HOUSE

On Sat., Jan. 24, things really heat up at the Sophia M. Sachs Butterfly House this winter. Warm your heart and soul in the 82 degrees of the Conservatory. Tap your feet to a Caribbean beat. Limber up and limbo down with limbo contests for kids and adults. Try your hand at coconut bowling, a flamingo ring toss, or build a sand castle. Wear your wildest Hawaiian shirt and don't forget the shades. Crafts for the kids and grandkids and prizes, prizes, prizes! All activities are free with regular admission so join us for a sizzling good time. 11 a.m. to 2 p.m.

Renew your wedding vows in a gorgeous Sophia M. Sachs Butterfly House setting. Bring your beloved and we'll take care of the rest. Renewal package includes non-denominational official, music, decorations, romantic dinner, and an overnight vacation in a bed & breakfast hideaway. Reservations begin in January for ceremonies starting May. Call (636) 733-2339 for details.

PHOTO BY MARK DEERING



Cockroaches like these are just a few of the revolting invertebrates on display at the Butterfly House's new exhibit "Shudder Bugs."

From Tues., Feb. 3 to Sun., May 25, the Sophia M. Sachs Butterfly House plans to host a few hundred of your closest, grossest friends in a new exhibit focusing on invertebrates that live "in you, on you, and with you," introducing Shudder Bugs! "This is a fun look at invertebrates we sometimes forget to notice," says Joe Norton, Director of the Butterfly House. This exhibit will focus on the creepy, eek-type invertebrates like maggots (eeeww), leeches (ick), flesh-eating dermestids (ugh), and roaches (aww, cute!), just to name a few. Additional exhibits on medical, veterinary, and forensic entomology will introduce visitors to the science of using bugs as clues to figure out health mysteries. You'll learn things about your nearest and dearest that will really EEK! you out. Exhibit free with regular admission.

PHOTO BY SCOTT WOODBURY

Mourning cloak butterflies spend the cold of winter in hollow tree trunks at Shaw Nature Reserve, emerging on sunny days to spread their wings and soak up some rays.

SHAW NATURE RESERVE

Can't stand those pesky ticks and mosquitoes? Never fear, they disappear when the temperature dips below freezing, leaving these 2,400 acres of woods, wetland, restored tallgrass prairie, and glades open for exploration by fans of friendlier bugs. When ticks and biting insects are at rest in the winter, some of their distant relatives become active on the warmer days. Restoration biologist James Trager provides this account of some insects visible at the Nature Reserve even in winter. Can you spot them all?

Even in the dead of winter, whenever the temperature soars over 50° F and the skies are clear, one may count on certain hardy insects to remind us of the eventual coming of spring. Occasional bright yellow sulphur butterflies replenish their energy supplies for the next cold spell by flying low over fields and roadsides in search of winter-flowering dandelions or bluets. In a woodland sun fleck, dancing, fairy-like swarms of small (1/3 inch) winter craneflies delight the eye. Beneath the dancers, from sun-warmed leaf litter, one may hear the soft, quaking trill of the tinkling ground cricket. The serious bug hunter may even notice the foraging columns of the small, shiny, black-coffee-colored "winter ants," as they scavenge winter-killed invertebrates on the forest floor, or sweet sap oozing from tree trunks. Glistening spider webs appear miraculously over blackened stubble a few days after a prescribed prairie fire. The hardiest of all winter insects are snow fleas (actually springtails, without the fleas' annoying habits), which are active at temperatures down into the 20s and feed on tree pollen on the surface of snow banks.

Winter is a great time of year at the Reserve to go hiking, view the land and tree formations, take photographs in the crisp winter light, and even work up a sweat cross-country skiing when it snows. But for fans of Insect Planet, there's no comparison. Come to the Nature Reserve this January and February to spot all kinds of interesting birds, beasts, and bugs.

left to right: Persimmon (Diospyros virginiana), *Paper bark maple* (Acer griseum), *Chinese elm* (Ulmus parvifolia), *Three-flowered maple* (Acer triflorum)

THE GARDEN EXPLORER

Winter bark

by Chip Tynan, *Answer Service Manager*

Don't overlook the potential impact of the bark of certain deciduous trees in the winter landscape. It's hard not to be impressed by the imposing presence of a large, towering native Sycamore (*Platanus occidentalis*), or its hybrid cousin the London plane tree (*Platanus x hispanica*) when viewed in silhouette against a clear blue winter sky. From summer until fall sheets of bark peel from these trees to reveal new creamy white bark reminiscent of bones bleached by a desert sun. Though frequently planted in urban areas because of their rapid growth and tolerance of tough conditions, they are really at their best in natural landscapes where their constant rain of litter poses no maintenance inconveniences.

Lacking the space for such a behemoth, gardeners have other choices for smaller landscapes. The imported Paperbark maple (*Acer griseum*) is a slow growing small tree to 25 feet or more and is tolerant of full sun or partial shade. Its beautiful cinnamon to reddish-brown bark flakes and peels throughout the year, but is never messy. Likewise for its similarly statured Asian cousin, the Three-flowered maple (*Acer triflorum*). Best sited as an understory tree in light shade, winter highlights its tannish-brown bark which exfoliates (peels) in vertical strips, revealing fresh orange-brown inner bark.

Our native River birch (*Betula nigra*) is a taller tree, typically exceeding 40 feet in height. A fast-grower that is resistant to the deadly bronze birch borer, it is an ideal choice for damp to wet acidic soils, though it is tolerant of drier locations if given sufficient summer moisture. Cinnamon brown bark peels away to reveal a lighter inner bark. The selected cultivar 'Cully' (also called 'Heritage' in the trade) is an exceptional form noted for creamy white inner bark that nearly matches that of the insect-prone and short-lived white and paper-barked birches.

Another large native tree is the Persimmon (*Diospyros virginiana*). Older specimens characteristically display a rough, fissured bark that is reminiscent of an alligator's hide. Trees are either male or female, so be sure to leave space to plant one of each if the tasty fruits are desired for personal or wildlife consumption.

Persian ironwood (*Parrotia persica*) is another small (20–40 feet) tree best grown in partial shade and well-drained slightly acidic soils. Bark of mature specimens peels off to reveal a mottled patchwork of green, white, and tan inner colors.

Stewartias are very slow growing to 25 feet or more, and have exceptional patchy reddish-brown sinewy bark that stands out in every season. Many gardeners are only familiar with the Japanese species (*Stewartia pseudocamellia*), while overlooking our underutilized Eastern U.S. native Mountain stewartia (*Stewartia ovata*).

The Chinese or Lacebark elm (*Ulmus parvifolia*) is a fast-growing medium sized shade tree tolerant of urban conditions and resistant to Dutch elm disease. Bark of older trees exfoliates in small patches, revealing various shades of green, gray, tan, and brown. Many superior varieties have been introduced, including 'Dynasty,' 'Allee,' 'Athena,' and others.

PHOTO BY ELLEN FLESCH

On the Garden staff since 1986, Chip Tynan manages the Garden's Horticulture Answer Service, overseeing a staff of 40 volunteers who field an excess of 20,000 questions annually. He is a well-known local columnist for the St. Louis Post-Dispatch *and regularly teaches adult education courses at the Garden, talks to gardening clubs, and appears on local TV and radio as a gardening expert. Tynan's email is chip.tynan@mobot.org.*

Homegrown Gardening Help

"If you don't like the weather in St. Louis, just wait a minute." Mark Twain is credited as the originator of this quip, but many a local gardener has ruefully thought the same. In the evolution of climatology, the USDA divided up the nation into plant zones first with numbers, then since the early 1990s with numbers and letters to further slice up the pie. Even so, local gardeners have had to learn the vagaries of microclimates: the region is considered a 5b, but the City proper is warmer—6a—thanks to all that heat-radiating concrete, and your own backyard may have its own microclime, based on topography, shade, etc. With such a degree of specialization, the need for experts of local conditions is real.

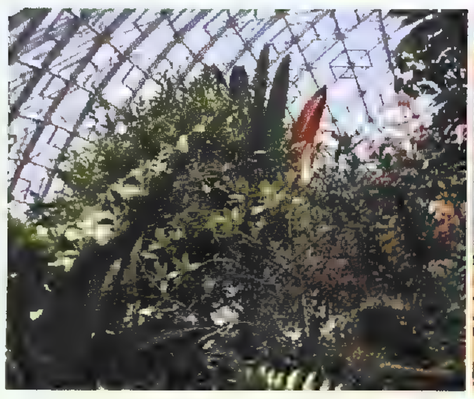
Move over Dirt Fest, it's time for something bigger, more comprehensive, and more locality-specific. Introducing the first annual St. Louis Gardening Help Fest. You can still learn to build healthy, nutrient-rich soil for thriving plants in your own backyard, but now there's even more to learn. This year, on Saturday, March 20 (the first day of spring), local experts lecture on such topics as "Top 20 Problems for St. Louis Gardeners" and "20 Best Perennials for St. Louis." Learn how to create your own butterfly garden in the St. Louis climate and the best way to care for a St. Louis lawn. Attendees will also learn about the Plants of Merit, plants carefully selected for outstanding qualities and dependable performance in the St. Louis area. The optional soil test (preregistration requested, additional fee) will give you the lowdown on what kind of dirt you have and how to get the kind of dirt you want.

Sat., Mar. 20, 9 a.m. to 5 p.m.,
Kemper Center, call (314) 577-9562 to register

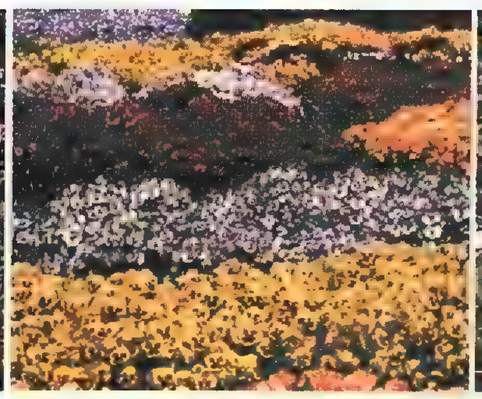
PLANTS IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

January



Climatron®



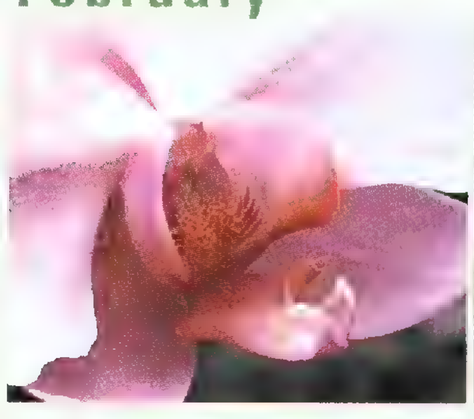
hardy pansies

snow drops

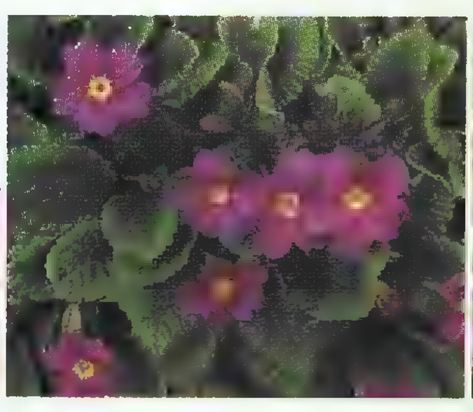
red powder puff tree

ornamental grasses

February



orchids in 2004 Orchid Show



primrose

crocus

daphne in the Temperate House

camellias in the Linnean House

FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

Hamamelis vernalis
Ozark witch hazel

A deciduous, winter-blooming, Missouri native shrub which occurs in the wild in gravel or rocky streambeds, Ozark witch hazel grows 6–10 feet tall with a rounded habit. Noted for its extremely early (January/February) and lengthy (to 4 weeks) bloom period. Fragrant, globular flower clusters vary in color, but flowers most frequently have yellow petals and reddish inner calyxes. Leaves turn an attractive golden yellow in autumn. Extract obtained from the leaves, bark, and stems was formerly used medicinally by Native Americans for external treatment of sprains, bruises, and inflammations.

Plants of Merit ™ are selected by Garden staff for outstanding qualities and dependable performance in the St. Louis area. View all current PMs on the website: www.mobot.org/gardeninghelp.

Christmas Tree Recycling

Fri., Dec. 26 to Mon., Jan. 19
A service of the Garden for our members.

Drop off your holiday trees at the marked lot in the 4500 block of Shaw Boulevard between Vandeventer and Kingshighway, directly across from the Monsanto Center, east of the railroad tracks. All decorations should be removed; no bagged trees, please. For more information, call the hotline at (314) 577-9555.

THE PLANT SOCIETIES

American Orchid Society
(Mid-America Regional Judging Committee) David Brown, (314) 727-2385

Belleville Area Rose Society
Dennis Nelson, (618) 233-4609
homepages.ezeeweb.com/rosenut

Bonsai Society of Greater St. Louis
Bob Harris, (314) 352-0817,
bobharris@accessus.net

Boxwood Society of the Midwest
Mary Clair Wenger, (314) 846-2834

Dahlia Society of Greater St. Louis
Ellis Evans, (314) 843-3767

Federated Garden Clubs of Missouri
Elizabeth Roche, (314) 544-4337

Gardeners of America (Ozark Region)
Russell McClellan, (314) 837-2470

Gateway West Gesneriad Society
Gary Dunlap, (636) 789-3604,
patspets@jcn1.com

Greater St. Louis Daffodil Society
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jason.delaney@mobot.org

Greater St. Louis Daylily Society
Elaine Hogg, (314) 432-4206

Greater St. Louis Iris Society
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morrisje1@aol.com

Henry Shaw Cactus Society
Pat Thomann, (314) 892-1123

Metro East Herb Club
Daphne Sumner, (618) 538-7739

Metropolitan St. Louis African Violet Council
Carolyn Burr, (636) 225-2559

Mid-America Regional Lily Society
Fred Winterowd, (314) 423-5313

Missouri Botanical Garden Daylily Society
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Rose Society of Greater St. Louis
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St. Louis Carnivorous Plant Society
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St. Louis Horticultural Society
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salviawrens@sbcglobal.net

St. Louis Hosta Society
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sandi@stlouishosta.com
www.stlouishosta.com

St. Louis Water Garden Society
Joan Woelfel, (636) 394-6342,
www.slwgs.org

Webster Groves Herb Society
Nancy Waddell, (636) 464-6085,
petaledposes@aol.com

West County Daylily Club
Ms. Chick Buehrig,
(314) 389-8261, buehrig31@aol.com

Wild Ones Natural Landscapers, St. Louis Chapter
Scott Woodbury, (636) 451-3512,
scott.woodbury@mobot.org,
www.for-wild.org

This list is published twice a year in the *Bulletin* (Jan./Feb., July/Aug.).
To change your listing, call (314) 577-0851 or email ellen.flesch@mobot.org.
The most current information will be available year-round on the Garden's website: www.mobot.org.

the website...

Plant Finder: Cultural information on over 2,000 plants growing in the Kemper display gardens.

Find-A-Plant: Search the living plant database to find what plants are growing in the Garden and where.

Gardening Help: Information on over 300 gardening topics, including all Hortline messages.

Integrated Pest Management: Diagnostic and control measures for nearly 100 of the most common insect, disease, and environmental problems encountered in Missouri.

Plants of Merit: Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

Plants in Bloom: Updated weekly at the Garden, along with current photos, updated biweekly.

SPOTLIGHT

Orchid Show Volunteers

They stand facing the table; their hands perform a series of complicated actions quickly and gracefully. A violent thrust of a pruner into the edge of the bark loosens each pot, a quick twist, a delicate surgery on overgrown roots, a new home. Mary Jean Poetz and Kay Sofian work together repotting orchids in companionable silence punctuated by occasional bursts of humorous observations. Together, they have almost 50 years of experience growing orchids, 25 of them spent as volunteers at the Missouri Botanical Garden. In the course of a year, they will repot a chunk of the collection of over 8,000 plants. Why do they do it? "We have a great time together," says Kay. "It's like a happy family." Why orchids? "Because they're tough but exotic…like us!" laughs Mary Jean. Kay first became enamored of orchids one gray January day: "I'd grown almost every other indoor plant, then I noticed these beautiful bright colors at the nursery. I bought my first orchid and the rest is history." Today, both Kay and Mary Jean fess up to having personal greenhouses, coldframes, and collections of hundreds of plants each. "It's an addiction!" laughs Doris Krueger, who, after volunteering for 15 years in the Climatron, decided that orchids were her first love and switched to greenhouse work. She also has a considerable home collection of the plants. "You can't have just one."

PHOTO BY ELIZABETH McNULTY

Orchid volunteers: Doris Krueger, Mary Jean Poetz, Mary Ellen May, Kay Sofian, K. K. Ong photographed in the orchid range.

The orchid volunteers help prepare the plants for the orchid show well in advance, and provide the extra hands needed to complete all the tasks on deadline. "These volunteers are busy year-round helping me prep the orchids for the show," says orchid grower Babs Wagner. "I wouldn't be able to do it without them. They are big help!"

There's a place for your talents at the Garden; a wide range of volunteer opportunities is available. For more information, call Jackie Juras at (314) 577-5187.

SITTIN' PRETTY

Upgrade your membership now and receive this MBG logo Garden chair perfect for our spring and summer events. Move your membership to the Family Level or above and enjoy additional benefits throughout 2004, including free admission for you and 10 friends to the Japanese Festival and Best of Missouri Market. You will also receive four tram tour tickets and four admission tickets to the Sophia M. Sachs Butterfly House. Enjoy your new benefits now and you will be sitting pretty! For more information, call (314) 577-5118.

What's missing from this picture

Don't miss a fascinating lecture on the topic of "plant blindness," the inability of people to notice plants in the way they notice animals. Humans evolved to be attuned to potential predators and prey, leaving us with this botanical blindspot. Professor James Wandersee of Louisiana State University specializes in botany and public perception.

Thurs., Jan. 29, 3 p.m., Ridgway Center

CAMELLIA CRAZE

The Linnean House camellia collection reaches peak bloom in mid-February, just in time for Valentine's Day.

Walk into the Linnean House this time of year and enter a world of brilliant color and delicate fragrance to delight the senses of the winter-weary visitor. While some camellias flower as early as October, the main show begins in December and lasts through April. Peak bloom is mid- to late February, so bring your Valentine for this fantastic display of glorious red, white, and pink.

With 260 species and counting, camellias have been cultivated for over 2,000 years for their economic value. They are native to Southeast Asia, primarily southern China and Japan, although a few species are found in India, Malaysia, Borneo, and Korea. The seeds of some camellia species are crushed for their high-quality oil, which is used in cooking, cosmetics, and hairdressing, but the plant is probably best known as the source of tea.

Most tea is made from *Camellia sinensis*. For black tea, the leaves are first crushed or rolled, allowed to partially ferment, and then dried. Green tea comes from the same plant, but the leaves are not fermented. When tea was introduced in Europe in the early 17th century, it was strictly for the wealthy—a pound of tea cost the equivalent of a year's salary. Today, tea is the world's most popular beverage.

Early botanist Carl Linnaeus (hence Linnean House) dubbed the plant "camellia" as a posthumous honor of a German Jesuit missionary to the Philippines, Georg Kamel, who died in Manila in 1706. Kamel, whose name in Latin is Camellus, is thought never to have seen a camellia, but was well known for his work on Asian plants.

Seeds of camellias first traveled to Europe from Asia on spice ships in the mid-18th century, when importers hoped to establish tea farms locally. While the flowers of the tea plant are not particularly showy, seeds of other camellia species were imported at the same time and soon became popular as ornamental plants, particularly the species *C. japonica*, *C. reticulata*, and *C. sasanqua*.

Camellias were brought to the Unites States from England in 1798 and were widely grown in conservatories in Philadelphia, Boston, and New York during the middle of the 19th century. Today they are popularly grown outdoors in the southeastern states (*C. japonica* is the state flower of Alabama) and along the west coast.

The Linnean House features over 80 different camellias, diverse in size, color, floral form, and history. Some have distinguished pasts in China or Japan, like *C. japonica* 'Magnoliaeflora,' which was grown in Japan as long ago as 1695. Others are old European favorites, such as the cultivar *C. japonica* 'Elegans Chandler;' planted here in 1914 but developed in the early 19th century in London's first specialty camellia nursery. Also look for the extremely rare yellow-flowering camellia, *Camellia chrysantha*, at the end of the northeast bed. It is one of the last camellias to flower, generally blooming in early March to early April.

The display is often intensely fragrant, filled from fall through spring with the scent of the fragrant olive trees, *Osmanthus fragrans*, followed by several types of jasmines blooming from early to late spring. Contrary to popular belief, most camellias have no scent, though the fall-blooming species does have a subtle sweet fragrance.

Built in 1882 by Henry Shaw, the Linnean House is the oldest greenhouse in continuous operation west of the Mississippi River. It is named in honor of the famed Swedish botanist Carl Linnaeus (1707–1778), the creator of the standard binomial ("two names") system of naming plants and animals. The conservatory originally overwintered citrus trees, tree ferns, palms, and other tender plants in pots that were moved out into the Garden during the summer months.

After World War I, the Linnean House was renovated: the half-glass, half-slate roof was converted to all glass, and soil was brought in to create sloped landscape beds. Rare conifers, rhododendrons, azaleas, and heaths were planted, and the central water feature was created out of native limestone and fashioned to look like a natural spring along the Meramec River. A twisted tree stump, growing around a large boulder, sat atop the spring. (The much beloved little mermaid statue—*Amphitrite* by Wheeler Williams—that now sits in the grotto was not added until 1986.)

After a severe hailstorm in 1927 caused substantial damage to the glass, the roof was changed to one-third slate and two-thirds glass, as it is today. About this time, camellias began to be displayed in the house. Some of these original camellias are

MBG ARCHIVES

Visitors to the Garden circa 1890, shortly after the Linnean House was constructed. Image taken from glass plate negative.

thought to have been the "Belgian Refugees," plants shipped from Belgium in 1915 during the war. A few of the largest trees in the house today date to this time, but the majority of our current camellias were planted in the 1960s and 70s. The last renovation of the Linnean House occurred in 1980, and today the structure is in need of repair. The Stewards of the Earth capital campaign seeks to raise $16.5 million for historic preservation and improvement. For more information on how you can help, please contact the Development office at (314) 577-5120.

Linnean House in full bloom.

Camellias exert a powerful fascination for their growers, and substantial "how-to" literature exists on the genus. Here is just a brief overview of care and maintenance required. Camellias originate from subtropical regions in China, Japan, and neighboring countries. They love warm, wet summers and moderately cold, dry winters. While not considered winter hardy in St. Louis, a few recent "very cold hardy" camellia cultivars—such as 'Polar Ice' and 'Winter's Beauty'—might show promise, if planted in a sheltered location. Camellias make lovely container plants, but must be moved indoors in winter. The plants must be kept below 55 degrees at night during the winter, however, as warmer night temperatures cause their buds to drop. Camellias grow best in most well-drained slightly acid soil. The soil should be kept moist, not soggy, all the time. Fertilize your plant in the spring after flowering. Organic fertilizers such as cottonseed meal are often successful. If you wish to use commercially prepared inorganic fertilizers (such as 10-10-10), follow instructions carefully. Judicious pruning may be recommended to control insect and diseases by thinning out dense interior leaves or as a spur to vigorous growth, which produces the best blooms. Prune after blooming and before new growth begins, so as not to remove next years' flower buds. Disbudding (the removal of some buds) may also help to concentrate the plant's energy on the development of fewer, but more spectacular, flowers. Camellias are susceptible to a number of fungal diseases including leaf spots, black mold, flower blight, canker, and root rot. Scale can be a troublesome insect pest.

TRIBUTES

September—October 2003

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

Mr. Jack Ansehl
Mrs. D. J. Serkes

Patricia R. Arnold
The Rome Group

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The Grossmans
The Melnicks

Mr. and Mrs. Lloyd Bill
Mr. and Mrs. Jack D. Lite

Mr. and Mrs. Eugene P. Brakensiek
Mr. and Mrs. Nic Schmit

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Shaw Nature Reserve
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PHOTO BY JACK JENNINGS

Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, at (314) 577-9455 for further information and a complimentary brochure.

Orchids, camellias, tropics in the Climatron...

'tis the season for romance at the Garden. The Garden Gate Shop has everything you need for a special Valentine, from elegant artglass vases and gifts, to exotic-print scarfs and jackets, to deliciously scented products for bath and home.

GARDEN GATE SHOP

4344 Shaw Blvd. • (314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

During the months of January and February, the shop hours will be 9 a.m. to 5 p.m.

Special offers and events!

January 5–7
Shop closed for inventory and cleaning

January 10
Children's Story Time, 11 a.m.

January 14
Members receive 20% off all merchandise

Wind 'n Willow cheese ball food tasting, Noon to 3 p.m.

January 31
Local author Kristin Joy Pratt-Serafini will read from and sign her children's books *A Walk in the Rainforest*, *Salamander Rain: A Lake and Pond Journal*, and *Saguaro Moon: a Desert Journal*. 1 p.m.

Rothschild Farms food tasting, 10:30 a.m. to 2:30 p.m.

January 31-February 1
Orchid specialist Tina Steck greeting card trunk show, 1 to 4 p.m.

February 1–29
Artists of the month are 19th century orchid illustrator Florence Woolward and world-renowned Swedish illustrator Stig Dalstrom. Individual prints and folios will be displayed and available for sale.

February 7–8
Del Sol jewelry trunk show, 10 a.m. to 5 p.m.

Wind 'n Willow cheese ball food tasting, 10:30 a.m. to 2:30 p.m.

February 14
Happy Valentine's Day!
Free Jelly Belly™ samples.

February 27
Members receive 20% off all merchandise

MBG private label food tasting, noon to 3 p.m.

World's Fair expert Sue Oertli, noon to 3 p.m.

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Mrs. Edward J. Burkhardt
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MEMBERS' ENTRY COURT

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from September 1, 2003 through November 15, 2003.

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Paul and Mary Dozier
Mr. and Mrs. Milton L. Heitman

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Gailya Barker
Timothy Hickman
Joan Lang
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Lucy Smith
Laura Stuetzer
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William and Susan Wold

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Grace Heitman
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Pauline Heitman
Mr. and Mrs. Milton L. Heitman

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Friends and Family of Mike Minner

Minner Nursery
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Julia Johnson
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Martha Perry

Gil and Chris Karst
Gil Karst

Ben and Alex Minner
Jerre and Jack Minner

Cheryl Ann Moeller
Stacy Cline
Ed Moeller

Sr. Mary Teresa Noth, F.S.M.
David and Waltraud Evans
Joe and Judy Evans
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Jack Petrovic

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Katherine Kimelman
Margaret Selig

Kerri Repa
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Carol Stewart

Germania Sanchez
Anonymous

Wally Strosnider
Eileen and Walter Strosnider

Nancy Sappington Townsend
Mr. and Mrs. James E. Hyde
Hannah Lawson

Brenda Watson
Cathy Watson

Cathy Watson
Cathy Watson

MORE KIDSTUFF

PHOTO BY DIANE WILSON

On your Mark, Set, Roll!

After debuting at the Garden last September to an enthusiastic response, "Strollerobics" fitness walking returns this spring, back by popular demand! Over the course of eight weeks of one-hour sessions, parents exercise as they push their children in strollers and enjoy the Garden together for a fun, low-impact workout for all fitness levels. Participants push strollers along a mostly flat path around the Garden grounds, stopping to do lunges, squats, sit-ups, and jumping jacks. The exercise path highlights the Garden areas of most interest to young children.

"Children love the Japanese Garden," says Strollerobics instructor Amy Jenkins. "They watch the ducks and fish while we use the bridge railings to do standing push-ups."

Classes take place from 9:30 a.m. to 10:30 a.m. outside on the Garden grounds. Spring sessions last eight weeks, available on Sundays, Mondays, Tuesdays, Thursdays, and Fridays. The Sunday session begins on March 7; all others begin the week of March 15. The cost for an eight-class session is $55 per adult ($50 for Garden members). Advance registration is required, and class size is limited to 20 adult participants each, so call (314) 577-0254 to register today.

February is American Heart Month

February is the month for valentines, flowers, and paper hearts, but it's also a good time to reflect on the health of your real heart. Cardiovascular disease remains the number one killer in the U.S., and obesity and physical inactivity lead the risk factors. More than half of American adults are overweight and obese, about one in four are sedentary, and another third are not active enough to reach a healthy level of heart fitness. Even moderate-level physical activity, such as walking, can protect cardio-respiratory fitness and blood pressure. And what better way to inspire your exercise program than walking in the Garden?

The American Heart Association and the U.S. Congress have designated February American Heart Month, and to this end, the Garden offers a guided "Fitness Foray" map, free with admission. The Garden has almost two miles of walking paths, and the Fitness Foray charts out three easy loops in a variety of lengths, and proves assorted fitness and walking fun facts. In addition, the Garden opens early at 7 a.m. every Wednesday and Saturday to encourage fitness walking. A light breakfast is also available for purchase in the Garden Café, so grab a workout buddy and meet for coffee and exercise on the Fitness Foray.

"Little Sprouts" in Spring

Watch your two- to four-year-old bloom as they discover the beauty of the Garden in the new "Little Sprouts" program. Pediatric educators from the Women's and Children's Center of St. John's Mercy Medical Center will lead you and your child on short walks through the Garden to explore with age appropriate activities. Each week will feature a different outdoor (weather permitting) or indoor activity, followed by a short story, snack, and simple craft project. Tips for guiding your growing child through the toddler and pre-school years will be discussed at each session. The series of 90-minute programs will be held at 9:30 a.m. on Tuesday mornings beginning March 23 and continue for eight weeks. $85 fee ($76.50 for Garden members). Advance registration is required; call (314) 577-0254.

Camp Bug-A-Loo at the Butterfly House

Each one-hour, nature-themed program is brimming with science, imaginative play, music, arts and crafts, storytelling, math, and more. A perfect winter diversion for little ones who are anxious to leave their quiet cocoons at home and venture into a fun environment packed with critters that flit and crawl, things that ooze and mush, and activities that fascinate and tickle the senses. Guaranteed to delight any two- to four-year old. Classes take place from 9:30 to 10:30 a.m. every other Tuesday in January and February: January 13, 27 and February 10, 24. Cost is $10 per class ($8 for Garden members). Advance registration is required; call (636) 530-0076 x13.

Missouri Botanical Garden Library
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CALENDAR OF EVENTS

January

Through Jan. 4

"Gardenland Express" Holiday Flower and Train Show, sponsored by Citigroup, features G-scale trains traveling through miniature scenic landscapes, children's theme trains, hundreds of poinsettias and other colorful seasonal plants and flowers. Regular admission plus $3 adults, $2 seniors. Free for Garden members, children 12 and under. RC.

Through Sun., Jan. 4

Holiday wreath exhibition features unusual, magnificent wreaths created by some of the area's finest floral designers. Some wreaths are sold through a silent auction, with proceeds benefiting the Garden. RC.

Mon., Jan. 12 through Fri., Mar. 5

"Upclose and Floral," an exhibition of 35 color photographs of wildflowers by Margaret Ely. RC.

Mon., Jan. 12 through Sun., Mar. 14

"Plants of the Lewis and Clark Expedition" exhibit includes 20 mounted specimens collected by Fay E. Benton and Steve Schaller, and quotes from the explorers' journals. RC.

Wed., Jan. 14

**Members' Day. MBG Research: Behind the Scenes and in the Field. See page 6 for details. 10 a.m. MC.

Fri. & Sat., Jan 16 & 17

Open House Days at the EarthWays Home, Grand Center. Tours begin at 10 a.m., 11 a.m., noon, and 1 p.m. $2 (free for Garden members). 3617 Grandel Square. Call (314) 577-0220. EH.

Fri., Jan. 30

**Members' Event. An Orchid Romance 2004 Sneak Preview. See page 7 for details. 5 to 8 p.m. RC.

Sat., Jan. 31 through Sun., Mar. 14

An Orchid Romance 2004: annual flower show features hundreds of exotic and fragrant orchids and lush tropical foliage accented by urns, columns, and romantic ruins. See page 7 for details. Garden admission plus $3 for adults or $2 for seniors age 65+. Members and children 12 and under are free. RC.

February

Now through Sat., Mar. 14

An Orchid Romance 2004 continues. See page 7 for details.

Sat. & Sun., Feb. 7 & 8

Missouri Orchid Society show and sale. 9 a.m. to 5 p.m. RC.

Sun., Feb. 8

"Celebrate the Gospel," the Garden's 14th annual gospel music celebration, featuring Mother Lofties and the Lofties Sisters. Seating is first-come, first-served. 3 p.m. RC.

Sat., Feb. 14, 2004

**Members' Event. Valentine's Day Dinner Dance. See page 6 for details. By reservation only. Please call (314) 577-9500. 6:30 to 10:30 p.m. RC.

Sun., Feb. 15

"Celebrate the Gospel" continues with the St. Alphonsus "Rock" Church Choir, directed by Danny DuMaine. 3 p.m. RC.

Tues., Feb. 17

River City Professionals happy hour and "8-Minute Networking," sponsored by *Sauce* Magazine. Cash bar. 5:30 to 9 p.m. RC.

Fri. & Sat., Feb. 20 & 21

Open House Days at the EarthWays Home, Grand Center. Tours begin at 10 a.m., 11 a.m., noon, and 1 p.m. $2 (free for Garden members). 3617 Grandel Square. Call (314) 577-0220. EH.

Sat. & Sun., Feb. 21 & 22

"Sugared, Spiced and Everything Iced." See page 7 for details. 10 a.m. to 4 p.m. RC.

Fri., Feb. 27

**Members' Day. "The World Comes to St. Louis: A Visit to the 1904 World's Fair" with Sue Oertli. 11 a.m. RC.

March

Now through Sun., Mar. 14

An Orchid Romance 2004 continues. See page 7 for details.

Sat., Mar. 20

Move over, Dirt Fest, it's time for the 1st annual St. Louis Gardening Help Fest. Get your soil tested, visit the Plant Doctor, learn to improve your garden for healthy plant growth from the local experts. For more information, call (314) 577-9562. 9 a.m. to 5 p.m. RC.

Upcoming

Wed., Jan. 14	"MBG Research Behind the Scenes and in the Field," with Jan Salick
Fri., Jan. 30	Orchid Show Preview
Sat., Feb. 14	Valentine Dinner Dance
Fri., Feb. 27	"The World Comes to St. Louis: A Visit to the 1904 World's Fair, with Sue Oertli
Wed., Mar. 24	"Top Landscape and Garden Design in St. Louis," with Ken Miller,
Sat., April 3	Eggstravaganza
Fri., Apr. 16	"Contain Yourself, Everything Is Going To Be All Right" container gardening
May	Spring event date TBD
Thurs., May 27	Rose Evening
Fri., Jun. 4	Musical Evening
Fri., Jul. 16	"Floral Design Made Easy," with Pat Scace
Wed., Aug. 11	"Gardening with Native Plants," with Scott Woodbury
Tues., Sep. 14	Tour of the Victorian Area of the Garden
Thurs., Oct. 7	Shaw Nature Reserve Fall Color Walk
Thurs., Nov. 11	Holiday Decorating
Wed., Dec. 1	Gardenland Express Preview
Sat., Dec. 4	Breakfast with Santa
Sat., Dec. 11	Holiday Concert

Key

CA = Cohen Amphitheater	GGS = Garden Gate Shop	MC = Monsanto Center	SP = Spink Pavilion
CL = Climatron	JG = Japanese Garden	RC = Ridgway Center	** denotes a Members-only event.
EH = EarthWays Home	KC = Kemper Center	SNR = Shaw Nature Reserve	$ denotes an additional fee.

All events are free with admission or membership unless otherwise noted.

ROMANCE MONTH:

contact information

Events hotline:	(314) 577-9400
Toll free 1-800-642-8842	
Garden Café:	(314) 577-5196
Daily, 9 a.m. to 5 p.m. (Wed. & Sat. from 7 a.m.)	
Garden Gate Shop:	(314) 577-5137
Daily, 9 a.m. to 5:30 p.m.	
Horticulture Answer Service:	(314) 577-5143
Weekdays, 9 a.m. to noon	
Main switch	(314) 577-5100
Children's Education:	(314) 577-5140
Communications:	(314) 577-0254
Composting Hotline:	(314) 577-9555
Continuing Education:	(314) 577-9441
Corporate Partners:	(314) 577-9495
Development:	(314) 577-5120
Facility Rental:	(314) 577-0200
Group Tours:	(314) 577-5140
Henry Shaw Society:	(314) 577-0858
Library:	(314) 577-5155
Membership:	(314) 577-5118
Planned Gifts:	(314) 577-9455
Senior Programs:	(314) 577-9506
Tribute Gifts:	(314) 577-0291
Volunteer Services:	(314) 577-5187

Garden family

Butterfly House:	Faust Park, Chesterfield, MO. (636) 530-0076
EarthWays Home:	3617 Grandel Square in Grand Center, St. Louis, MO. (314) 577-0220
Shaw Nature Reserve:	Hwy. 100 & I-44, Gray Summit, MO (636) 451-3512

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. (and Wednesday evenings in summer 2004). Parking is free.

Admission
- Free for members
- General admission is $7
  $3 for St. Louis City/County residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County residents.
- Children age 12 and under—free.
- Admission free to St. Louis City/County residents until noon every Wednesday and Saturday throughout the year, (except Japanese Festival and Best of Missouri Market).
- Special events may require an additional fee.

Editor: Elizabeth McNulty
Designer: Justin Visnesky
Cover photo: Jack Jennings

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Missouri Botanical Garden

Bulletin

March/April 2004 Vol. 92, No. 2

Bloomin' Bulbs

PHOTO BY PETER HOWARD

To discover and share knowledge
about plants and their environment,
in order to preserve and enrich life.

mission of the Missouri Botanical Garden

from the director...

Every great institution needs great people. Our Garden is no different. In the 145 years since Henry Shaw opened the gates, we've been fortunate to have staff who contribute to our distinction in every area of endeavor, from botanists to horticulturists, educators and ecologists, to the highly skilled personnel who ensure that the institution operates efficiently. The way to retain and attract the very best is to endow those positions in perpetuity—a key priority of the Stewards of the Earth Campaign, to provide for and guarantee the future excellence of the Missouri Botanical Garden.

In this issue of the *Bulletin*, we focus on two positions where the accomplishments are among the highlights of the Garden's horticulture display, providing all of us with an extraordinary encounter with nature's most beautiful offerings. Good examples are our Orchidologist and our Rosarian, whose propagation, cultivation, and display have provided a standard to gardens and gardeners the world over, and a treasure to the people of St. Louis. My hope is that our many friends will provide funds to endow permanently those positions to ensure that we can retain and attract the very best persons to fill them, positions named as the donor chooses.

I would like to add my appreciation to Scott Schnuck for agreeing to assume the presidency of the Garden's Board of Trustees and to Jack Thomas for his service as president for the past three years. At the same time, I am delighted that Marsha Rusnack has accepted reelection as president of the Members' Board. Our Garden has been blessed by exceptional, devoted leaders, and I am very grateful for their contribution to our commitment to serve society here in St. Louis and around the world.

Our Garden is lovely in all seasons of the year, but spring brings a special attraction with a wonderful selection of activities on Shaw Boulevard, at the Nature Reserve and within the Sophia M. Sachs Butterfly House & Education Center, and at the Gateway Center for Resource Efficiency in Grand Center. Check them out in the *Bulletin's* calendar.

All of these activities depend on our staff and volunteers, and I am extremely grateful to them for their hard work, and to you, our members, for sharing in our mission.

Peter H. Raven

Peter H. Raven, *Director*

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MISSOURI BOTANICAL
FEB 2 3 2004
GARDEN Lib

editor's note...

Springtime in this latitude signifies the return of color to our lives—from yellow daffs to pale green baby grass to pink cherry blossoms to lavender hyacinths, pastels aren't just a fashion trend, they're the natural state of affairs at the Garden. We have so much spectacular color around here in spring that we couldn't help but include our first-ever "photo montage" centerfold. If a picture's worth a thousand words, a visit is worth a zillion. Photographs, even beautiful ones, don't capture the scent of 80,000-plus flowers on the breeze, the feeling of warm sun on your face and damp earth underfoot, the tweetering of the Garden's portly songbirds. I could go on… but you'll just have to see for yourself, maybe at the SpringDig, March 20, where you can get the best advice for your garden with our local experts. Or during Eggstravaganza with the candy-crazed kiddies. Or on one of the Bloomin' Bulbs tours April 10 led by noted Garden bulb-ologist Jason Delaney. The Garden's color spills over this April to the St. Louis Art Museum with the debut of "The Illustrated Garden," an exhibit of the Garden's most gorgeous and priceless rare botanical books. And Shaw Nature Reserve features its own colors: the yellow fields of narcissus and their birder-famed bluebirds. So whether you're here to be part of history at the multihued Children's Garden Groundbreaking May 8, or present on Earth Day to show your love for our Green Mother, the Garden's got your color this spring.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

PHOTO BY JACK JENNINGS

ENDOWING THE FUTURE

Over the past 30 years the Garden has emerged as the world's preeminent institution for botanical research, education, and display. Its Ph.D. research staff has grown from four to 50. Horticultural displays on the grounds have grown from ten acres to 79. Educational programs have grown from small on-grounds classes to a burgeoning partnership with St. Louis Public Schools to provide math and science curricula and instruction affecting over 100,000 students, and the Kemper Center, one of the nation's preeminent gardening education centers for adults. Henry Shaw left the Garden with an adequate endowment for 1889, but as the Garden's programs have grown through the years, so have the financial needs.

Building the endowment for our current and future needs will ensure support for positions that are essential to carrying out the Garden's mission. The Stewards of the Earth campaign will endow curator positions dedicated to the care and maintenance of signature areas of the Garden, to the instruction and empowerment of St. Louis school children, and to the investigation and research of botanical concerns throughout the world.

Endowed positions enable the Garden to commit to long-term projects, assured that the positions required to carry out its mission are permanently supported. Endowment support will simultaneously release annual funds, now required to fund these positions, to be used in support of the Garden's ongoing operations. The Garden's continued success will be based on a superb staff and the excellence of the experts who lead it: a world class team with rare skills, the best education, and a strong commitment to the Garden's mission. This core team of Garden employees will have a key role in realizing our hopes for the future.

Talented, dedicated people are the most valuable resource on our planet.

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

On May 7, the Missouri Botanical Garden announced a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. The campaign, which also targets support for the 79-acre St. Louis campus and the Shaw Nature Reserve in Gray Summit, already has raised in excess of $64 million and seeks an additional $7 million in private gifts by 2005. The funds will support Garden research, education, and the facilities required to enhance interpretation and display.

ENSURE THE FUTURE, ENDOW THESE POSITIONS

PHOTO BY ELIZABETH MCNULTY

When Martha Stewart's people need an expert for Martha's "Orchid Tips," they call Babs Wagner, orchid grower for the Missouri Botanical Garden. For over eight years, Wagner has, with the help of eight volunteers, overseen the care and development of the Garden's largest living collection—orchids.

Once the exclusive privilege of the rich, a status symbol for which huge sums of money were paid, orchids today are widely available, but continue to exert an allure every bit as strong as in eras past, as books like *Orchid Fever* and *The Orchid Thief* bear witness.

The Garden's orchid collection dates to 1876, when Mrs. Henry T. Blow presented Garden founder Henry Shaw with a sampling of orchids collected by her husband while he served as Minister to Brazil under President Grant. Shaw was especially fond of orchids, and at his death in 1889, the Garden's collection, though small, was one of the most complete in the country. Today, the Garden boasts an award-winning orchid collection of over 8,100 plants including rare and ancient specimens, many of which are displayed at the annual Orchid Show in February and March (a tradition since 1924).

Babs is passionate about the Garden's orchid collection: "The history of this collection, its importance and value are without question. It is incredibly rewarding to care for this rich orchid inheritance Henry Shaw bequeathed to the citizens of St. Louis."

PHOTO BY NANCY DEBETTENCOURT

She is a master rosarian, duly elected by her peers to judge the prestigious, national All-America Rose Selection. Diane Brueckman is also the driving force behind the Missouri Botanical Garden's famed rose gardens, where she has worked for the last nine years.

Since prehistoric times, roses have held an almost mythic status in human culture. Throughout Europe, Asia, and the Middle East, the flower appears in the earliest art and poetry as both an object of beauty, but also of usefulness—in perfumes, flavorings, even medicines.

Henry Shaw adored roses. One of the only two volumes he ever penned is a slim treatise on this "Queen of Flowers." The Garden's original rose garden in 1913 thrilled visitors with "over 500 kinds of roses." Today, the Gladney Rose Garden, with its formal "wheel" design and overarching climbers, and the Lehmann Rose Garden, with its terraced beauty and All-America Rose Selection's test bed for the best new roses, offer more than four times the roses for public viewing.

The year 2003 brought the scourge of Rose-Rosette virus to the St. Louis area, threatening roses everywhere. Diane was a leader in the community for ways to treat and contain the disease, and with the assistance of her crew of volunteers, was able to turn the tide at the Garden, replacing over 1,000 plants in a single season.

"The Garden's roses are admired by visitors from the world over," says Diane. "Henry Shaw would surely be pleased by how far we've come."

By endowing a Curator position, a generous donor would ensure that the Garden's fantastic collections would be maintained by capable hands in perpetuity, and would also free up operating funds to enrich and grow these collections. For more information regarding levels of giving to endow curatorships, please contact the Development office at (314) 577-5120.

Current Endowed Positions

William T. Kemper Manager of the Kemper Center for Home Gardening: Steven Cline, Ph.D.,

P. A. Schulze Curator of Botany: Thomas Croat, Ph.D.

John S. Lehmann Curator of Grasses: Gerrit Davidse, Ph.D.

B. A. Krukoff Curator of African Botany: Peter Goldblatt, Ph.D.,

Aurelia Schlapp Curator of Perennial Plants: June C. Hutson

William L. Brown Curator of Economic Botany: James Miller, Ph.D.

B. A. Krukoff Curator of Central American Botany: W. D. Stevens, Ph.D.

William T. Kemper Director of Education and Interpretation: Luther Williams, Ph.D.

Positions Seeking Endowment

Curator of Aquatic Plants
Curator of the Chinese Garden
Curator of the Climatron
Curator of the Japanese Garden
Curator of Orchids
Curator of Roses

Director of Horticulture
Director of Research
Director of the Shaw Nature Reserve
Garden Librarian

Curator of African Bryophytes
Curator of Andean Botany
Curator of Bolivian Botany
Curator of Central Asian Botany
Curator of Chinese Botany
Curator of Costa Rican Botany
Curator of Madagascar Botany
Curator of Mesoamerican Bryophytes
Curator of Tropical African Botany

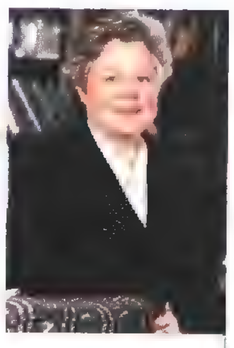


PHOTO BY TRENT HOLTZ

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patty Arnold. For more information on how you can help, please contact her office at (314) 577-5120.

MARCH

Amazing Orchids

"Truly outstanding." "The best orchid show ever, and I've been coming for ten years." "Truly inspired...and very romantic. My husband and I visited on our anniversary." Just a few of the comments so far from Orchid Show 2004.

On now through Sunday, March 14, An Orchid Romance is just the necessary antidote to the dreary, cold drizzles of late winter. Don't miss this year's spectacular display of hundreds of fragrant, colorful orchids in a setting of classical ruins overgrown with lush green foliage and mosses.

And for true orchid fans, a repeat visit can often be the most interesting: "I try to get as much diversity in the show as possible," says Garden orchid grower Babs Wagner. "The last few weeks get a little crazy."

PHOTO BY JACK JENNINGS

An Orchid Romance 2004
Now through Sun., Mar. 14; 9 a.m. to 5 p.m.; Orthwein Floral Display Hall
Garden admission plus $3 for adults. Members and children under 12–free.

Best STL Landscape

Garden designer, consultant, and owner of the Bug Store, Ken Miller takes us on an amazing tour of some of the area's most incredible and dynamic gardens as he presents "The Best Landscape and Garden Design Ideas From the Top Projects in St. Louis." Miller is the chairman of the annual *St. Louis Post-Dispatch* Great Garden Contest, co-sponsored by the Missouri Botanical Garden. He has visited the best gardens in town; learn what works from the pro!

Wed., Mar. 24
11 a.m.
Ridgway Center

Eggstravaganza

Hop on over to the Garden for our annual egg hunt. Bring the kids and your camera, it's springtime at the Garden, time for Eggstravaganza! Egg hunts are for children ages 2 to 10. They take place at 10:30, 11, 11:30 a.m., and noon, and begin promptly, so be sure to allow time to walk to the Climatron. Refreshments will be served, and you can meet the "Bunny" himself. Reservations are required since space is limited, so call (314) 577-9500 soon.

Sat., Apr. 3
10 a.m. to 12:30 p.m.
Climatron lawn

Contain Yourself!

Container gardening is one of the fastest growing segments in home gardening. Learn how to design, plant, and care for container gardens, as Jim Wilson presents "Contain Yourself! Everything is Going To Be All Right." Join Wilson—a noted gardening author, past host of "The Victory Garden" on PBS-TV, and frequent guest on HGTV®—for a hands-on, step-by-step demonstration. Make your porch and deck the focal point of your garden this season.

Fri., Apr. 16
10 a.m. (special start time)
Ridgway Center

PHOTO BY DIANE WILSON

Eggstravaganza
Sat., Apr. 3
10 a.m. to 12:30 p.m.

Spring Luncheon and Fashion Show

Thurs., May 13: Spring Luncheon and Fashion Show in the Orthwein Floral Display Hall. New day, new place, new fashions. Sponsored by Dillard's. Tickets are $50. Call (314) 577-9500 for reservations.

APRIL

Music at the Garden

Sundays, March 28 to May 2. Now in its 17th season, Classic 99's "From the Garden, Live®" concerts return to the Garden's Shoenberg Auditorium and broadcast live on KFUO-99.1 FM. Performers this year represent a diverse selection, including classical favorites like the Arianna String Quartet and the Hanser-McClellan Guitar Duo. Performances are free, but tickets are required. See the Calendar section for dates, artists performing, and ticketing details.

Arbor Day

Friday, April 2. To celebrate Missouri Arbor Day, the Garden will give away 300 saplings, available first-come, first-served, while supplies last. Species this year include three easy-to-grow Missouri natives: Bald cypress (*Taxodium distichium*), a flat-needled conifer that grows well in wet or medium soil; Blackgum (*Byssa sylvatic*), a medium-sized tree with wonderful red fall color; and Willow oak (*Quercus phellos*), a large, fast-growing tree with narrow leaves that grows well in poor soil. Master gardeners will be on hand to answer questions about tree planting. Pick up your free tree from 9 a.m. to 5 p.m. at the Kemper Center for Home Gardening.

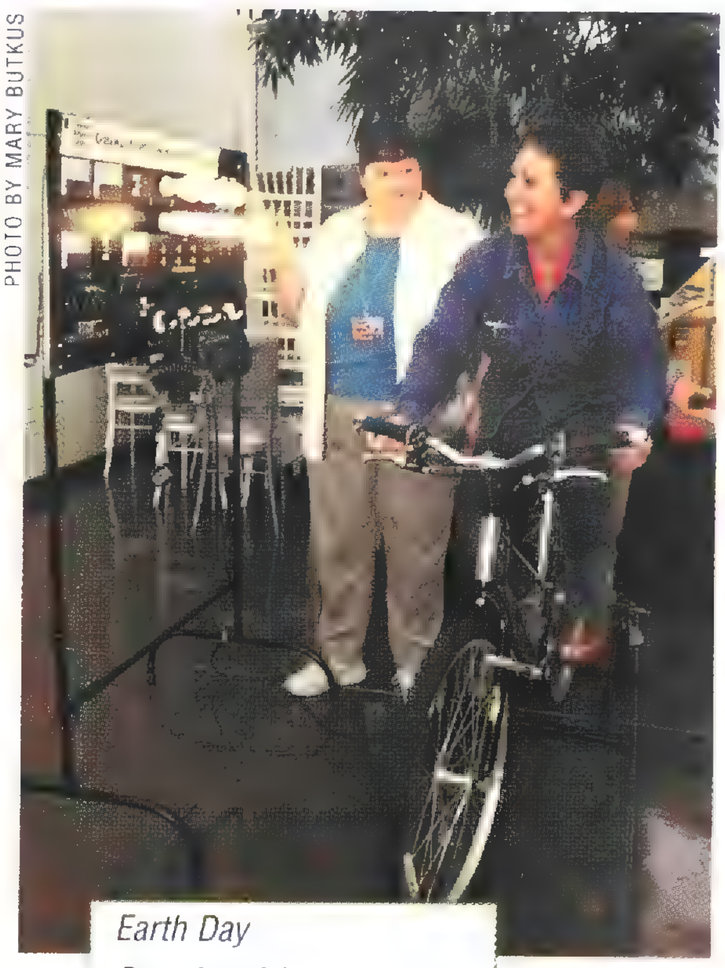
Earth Day Symposium

Thursday and Friday, April 22–23. Twenty partnering organizations co-host "Dialogue for Development: Investing in Sustainable Communities" at the Garden. The symposium features nationally recognized keynote speakers, workshops, technical seminars, a green building expo, and an April 30th river barge trip. Download a symposium registration brochure from www.stlouisearthday.org after Feb. 15.

Earth Day 2004

Saturday, April 24. Earth Day was founded in 1970 as a way to organize and call attention to rising public concerns about the environment. As one of the many "Earth Day Around Town" activities on Saturday, you can learn what you can do to ensure a healthy future for the planet from the Earth Share of Missouri organizations and the Garden's Eco-Adventures program. Horticulture staff will lead special, behind-the-scenes tours of the Garden greenhouses at 10 a.m., noon, and 2 p.m. Enjoy bluegrass music by the Flying Mules on Spoehrer Plaza from 1 to 3 p.m. Kids can hunt for secrets in the Kemper Center gardens and win a prize from the St. Louis Teacher's Recycle Center. Earth Day activities also take place at the Garden's EarthWays Home in midtown and Butterfly House in Chesterfield. See pages 13–14 for details.

PHOTO BY MARY BUTKUS



Earth Day
Sat., Apr. 24
10 a.m. to 3 p.m.

World T'ai Chi Day

Saturday, April 24. On the last Saturday of April each year at 10 a.m., a soothing event unfolds around the Earth, time zone by time zone: World T'ai Chi and Quigong Day. These ancient Chinese arts have been used for centuries to enhance vitality and promote self-healing with gentle movements suitable for all age groups. Practitioners will demonstrate this graceful art, and visitors are invited to participate as well, from 10 a.m. to 1 p.m. in the Garden.

Flower Sunday

Sunday, April 25. Garden founder Henry Shaw left a legacy in his will for hundreds of flowers to decorate Christ Church Cathedral (1210 Locust Street) during an annual sermon on the "goodness of God as shown in the growth of flowers, fruits, and other products of the vegetable kingdom." Every year since 1890, "Flower Sunday" has drawn crowds to admire the displays provided by Garden horticulturists. Services will be held at 8, 9 and 11 a.m.

Greenhouse Plant Sale

Thursday, April 29. The Greenhouse Complex will open its doors to Garden members for its yearly plant sale, featuring production overruns of annuals grown for the Garden grounds; large, unusual stock plants used for the Garden's propagation needs; and many perennials, tropicals, ferns, and interesting woody plants. Of special note this year are the Chinese lilac (*Syringa wolfii*), Magnolia 'Elizabeth,' seedlings from our own golden larch (*Psuedolarix amabilis*), and the hard-to-find Franklinia (*Franklinia alatamaha*) tree. All proceeds benefit the Garden. From 9 a.m. to 4 p.m.

BLOOMIN' BULBS

PHOTO BY TIM PARKER

ST. LOUIS BLOOMS!

The Garden returns to its "roots" this year, celebrating the changing seasons of St. Louis's best horticultural display. From the first bursts of bulb-beautiful spring, to the long-running rainbow of roses starting May, water lilies in late summer, and chrysanthemum and leaf color in fall, the Garden is where St. Louis really blooms!

Bloomin' Bulbs
Sat. Apr. 10
tours at 10 a.m., noon, and 2 p.m.
educational activities for kids

Welcome the start of the growing season with "Bloomin' Bulbs." By early April, the crocuses, daffodils, and hyacinths appear. By mid-month, tulips join the party. On Saturday, April 10, the Garden celebrates these "Bloomin' Bulbs" with special interpretative tours by the Garden's resident bulb expert, Jason Delaney. Kids will delight in naming plants and colors, and bulb-related educational activities will foster little green thumbs in the Ridgway Center. Don't miss the peak of spring's bulb beauty this April.

The Garden's bulbs bloom thanks to the hard work of Garden staff and a vast crew of volunteers including (but not limited to!) the Daffodil, Daylily, Iris, Lily, and Rock Garden societies. But it is Garden Horticulturist Jason Delaney who is the self-professed "bulb fanatic." We caught up with Delaney one of the few times he could be found indoors, while busy cataloging new species in his daffodil database.

So approximately how many bulbs will visitors see during Bloomin' Bulbs?

"Garden-wide over 84,000 bulbs were planted last fall, most for the spring display, but in some cases also for summer and fall. Most (44,500) are tulips, which we plant as annuals and remove after flowering."

What's "hot" in bulb gardening for 2004?

"New is always fashionable, and there are many new tulip and daffodil varieties in the Garden this year. Expect to see more and brighter colors, larger flowers, and new or unusual flower forms (doubles and fringes in tulips, split coronas in daffodils). We always strive to feature a good mix of hard-to-find 'flowers of the future' and classic standbys that are more easily obtained."

"Many new tulips are sporting boldly variegated leaves, as are Crown Imperials (fritillaries), Camassia, and Irises. Though not as common or widely displayed, these variegated plants can be found in the bulb and rock gardens. Multiple-variety or multiseason planting is all the rage. Planting for spring, summer, and fall in the same given space with hardy, complimentary bulbs alleviates the need for frequent labor. These techniques are employed in many areas throughout the Garden."

What's on the horizon for 2005?

"Aside from even more beauty, especially with increased summer-blooming bulbs, the American Daffodil Society has announced plans to host its 2005 national convention in St. Louis next April with a special visit planned to tour the Garden's collection of Narcissus. It's a big honor."

NEW IN 2004: Bulb enthusiasts may view a complete listing of all the bulbs planted in the last growing season in the Garden's new bulb database, viewable online at: www.ridgwaydb.mobot.org/bulbweb.

Look for some of the Garden's "signature" bulbs to plant in your own Garden this fall at the Garden Gate Shop!

Bulbs of the Garden

Number planted 2004	Species	Number of new species and hybrids	Number of residual bulbs	Most prominent location(s)	Peak bloom time
44,500	*Tulips*	*28 species, 100 hybrids*	*Only about 500 from year to year. Most are treated as annuals.*	*Samuels and Heckman bulb gardens (10,000). In front of the Climatron (13,200).*	*April–May*
4,200	*Hyacinths*	*1 species, 22 hybrids*	*None. These are treated as annuals and removed after flowering.*	*Samuels and Heckman bulb gardens.*	*March–April*
3,650	*Narcissus (daffodils)*	*2 species, 145 hybrids*	*Thousands! These are all long-term perennials that will be left in the ground indefinitely.*	*Samuels and Heckman bulb gardens.*	*March–May*
13,250	*Crocus*	*6 species, 15 hybrids*	*None. The Garden faces many of the same pest problems as homeowners. Squirrels routinely excavate thousands of our crocus bulbs*	*Samuels and Heckman bulb gardens (7,500). Lawn in front of the Lehmann Building (5,000)*	*March*
18,400	*bulbous Irises, Squills, Fritillaries, Alliums, Colchicum, Lilies, and a host of other rare or novelty bulbs*	*185 taxa, mostly species*	*Thousands! These are all long-term perennials that will be left in the ground indefinitely.*	*Rock Garden (2,268). Samuels and Heckman gardens (over 12,000).*	*February–November*

NEWS

New President of the Board

COURTESY SCOTT SCHNUCK

Scott Schnuck

At the February board meeting, trustee Scott Schnuck was elected president of the board. Scott had served previously as first vice president during Jack Thomas's term and as head of the finance committee, working actively on our most critical issues.

PHOTO BY DIANE W. SON

Members' Board

The Members' Board held its annual meeting in January. Retiring members were acknowledged, new ones were introduced, and new officers were installed.

New to the Members' Board are (above left): Anne Weidmann, JoAnn Rull, and Paula Lampen. Pictured with president Marsha Rusnack.

The Members' Board Officers are (above right): Laure Hullverson, Corresponding Secretary; Janet Lange, Second Vice President; Marsha Rusnack, President; Nancy Sauerhoff, First Vice President; Angie Eckert, Recording Secretary. Not pictured: Sally Cohn, Treasurer

Thank you!

Once again, Garden members' generous support led our year-end appeal to achieve impressive results in raising $129,920 for the Henry Shaw Fund, our most critical source for general operating support. Gifts to the annual appeal help ensure the Garden's continued leadership in horticultural display, botanical research, conservation, and education programs. Thanks again!

PHOTO BY ELLEN FLESCH

Stephen F. Brauer receives the Henry Shaw Medal.

Henry Shaw Medal

On Tuesday, November 18, 2003, Ambassador Stephen F. Brauer became the recipient of the Garden's highest honor, the Henry Shaw Medal. A Garden trustee since 1988, Brauer was named President of the Board in 2000, a position he filled until being called to serve as Ambassador to Belgium in 2001. During his tenure as President, he presided over many significant changes and events in the Garden's recent history, including the implementation of the long-range plan, the 200th anniversary of Henry Shaw's birth, and the renaming of the Shaw Arboretum to the Shaw Nature Reserve. Awarded since 1893, the Henry Shaw Medal honors those who have made a significant contribution to the Garden, botanical research, horticulture, conservation, or the museum community.

In the Spotlight

HGTV® cable network has recently launched a series of—what else?—home and garden books. Among the 2004 releases, the title *Flower Gardening: Bringing Home the Secrets of Great Gardens* features an entire chapter on the Missouri Botanical Garden, paying homage in particular to our fantastic bulb and daylily displays, and the nationally renowned Kemper Center for Home Gardening. Pick up your copy today in the Garden Gate Shop.

Raven Award Winners

Drs. Peter H. and Patricia Raven made a gift to the Garden to establish an award to recognize staff members who have performed exceptionally as individuals, or in concert with other staff, have added immense tangible value to the Garden. Nominations were made by division heads (themselves ineligible for the award) on the basis of the nominee having developed way(s) to reduce costs or enhance revenues, change the way an area operates or provides services, or influences a better means of our getting work done together.

PHOTO BY DIANE W. SON

Raven award winners from left: Dennis Strubberg, Jim Cocos, Elizabeth McNulty, Scott Woodbury, Cassandra Cody, Kevin Mattingly, Dr. Robert Coulter, and Cheryl Mill. Not pictured: Dr. Rodolfo Vásquez.

Little Shop Opening

Thanks to all who attended the sneak preview open house of the Little Shop Around the Corner, Saturday, February 14. Now that you're all Little Shop valentines, we hope—with a little luck of the Irish—that our official store opening on Wednesday, March 17 will be just as much fun. Official shop hours will be Wednesday through Sunday, 10 a.m. to 4 p.m., and while we're not yet open for business, until then, we are open for donations. Whether you're spring-cleaning or just downsizing, please consider this additional, tax-deductible way to support the Garden. For questions about how or what to donate, please call Little Shop Manager Judy Sokolik at (314) 577-0891.

LITTLE SHOP
AROUND
THE CORNER

PHOTO BY ELLEN FLESCH

A candle in support of the National Botanic Garden of Wales.

Sharing our Light

The Missouri Botanical Garden has been very fortunate in the generosity of our supporters. Other institutions have faced more challenging times. The National Botanic Garden of Wales, home to the world's largest single-span greenhouse, recently faced imminent threat of closure. The Missouri Botanical Garden responded to a request to light a candle "as a symbol of botanic garden community support." At press time, the Garden of Wales was in negotiations with a third party regarding its future.

DONOR PROFILE

PHOTO BY MARCI ARTSTEIN

Maurice Artstein

Maurice Artstein first came to St. Louis to work for Edison Brothers as creator and manager of Chandler Shoe stores. In 1965, "Maury" launched a second career importing specialty leathers for shoes. His store on Euclid Avenue was famed throughout St. Louis for featuring living examples of his unusual imports, including boa constrictors and lizards! Maury's sense of adventure, sense of humor, and love of life were evident to all who met him. It was his wish always to support "all of the cultural things that my great grandchildren will want to see." When Maury passed away in January 2003, his estate plan continued his history of support for the Garden through a charitable remainder trust. A portion of his estate gift has been set aside for a bench at the front of the Ridgway Center, a thoughtful reminder of the legacy of this generous visionary man.

For information on supporting the Garden with a gift through your estate please contact Judi Schraer, planned giving officer, at (314) 577-9455 or via e-mail: judi.schraer@mobot.org.

Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the greater St. Louis region. Corporate partnership gifts play a major role in providing annual operating support. Under the leadership of Edward D. Higgins, Executive Vice President, U.S. Bank, N.A. and Chairman of the Corporate Partners Committee, program membership continues to increase. We are pleased to recognize the outstanding support of our Corporate Partners.

Principal Level ($25,000 or more)

Commerce Bank
Monsanto Company
Schnuck Markets, Inc.

Shareholder Level ($10,000-$24,999)

A.G. Edwards, Inc.
Anheuser-Busch Companies, Inc.
The Boeing Company
Bunge North America
CBIZ Business Solutions of St. Louis, Inc.
Maritz Inc.

Underwriter Level ($5,000 to $9,999)

Brown Shoe Company, Inc.
BSI Constructors, Inc.
Edward Jones
Graybar Foundation
U.S. Bank, N.A.

Supporter Level ($1,000 to $4,999)

Belden Inc.
Catering St. Louis, Inc.
CIC Group, Inc.
The DESCO Group
The Fabick Companies
First National Bank of St. Louis
Forms Distribution Corporation
The Gabriel Foundation
General Motors Corporation
Hager Companies
H.B.D. Contracting, Inc.
Charles E. Jarrell Contracting Company, Inc.
Laclede Gas Company
McCarthy Building Companies, Inc.
Nicholas Applegate
Sansone Group
SSE
Stone Carlie & Company, L.L.C.
Tyco Healthcare/ Mallinckrodt

For additional information regarding the program, please contact Regina Faden, Corporate and Foundations Officer, at (314) 577-9513 or by e-mail at regina.faden@mobot.org.

PHOTO BY DALE DUFER

Recycled-content treasures from the Garden Gate Shop and the EarthWays Home showcase the beauty and diversity of "green" products.

PHOTO BY DALE DUFER

Jean Ponzi, Program Manager for the Garden's Gateway Center for Resource Efficiency, received the 2003 Outstanding Individual Service Award from the Missouri Environmental Education Association. In schools, businesses, on the radio and at the EarthWays Home, she is a champion of "green" learning.

EARTHWAYS HOME

Green Is Beautiful

What's your perception of "recycled-content" or "sustainable" products for the home? Some people think products that minimize environmental impact will look homespun or be inferior in quality.

Think again! And see for yourself at the EarthWays Home "Finishings and Furnishings" Open House Weekend, March 19–21. Visitors can learn about affordable consumer choices that eliminate indoor chemical toxicity and reduce consumption of water, energy, and other finite natural resources. Special displays will show how beauty blends with function in a variety of items made from recycled materials like plastics, metals, paper, and glass, as well as sustainably obtained materials including cork, bamboo, and linoleum.

How do you know if a product is true to environmental claims? Organizations like the U.S. Green Building Council are stimulating development of tools to assess performance and aesthetic features of products marketed as "green." A growing range of legitimate choices for finishing and furnishing homes includes floor coverings, paints, cleaning products, wood treatments, appliances, plumbing fixtures, fabrics, decor pieces, lighting, and more. Commercial-grade products are "greening" working environments too.

"Finishings and Furnishings" is the first in a series of special events planned throughout 2004 for the 10th anniversary of the EarthWays Home. This elegant Victorian residence was recycled from an abandoned shell into a model of practical, sustainable ways to "green" the budget and lifestyle quality of anyone's home today. Open House hours will be 10 a.m. to 4 p.m., Friday through Sunday, March 19–21. Please come and visit!

Green Product Finds

Bamboo's versatile qualities create an environmentally beneficial floor covering. Bamboo is a rapidly renewable plant in the grass family, regenerating in only 3–5 years without replanting and minimal use of agricultural chemicals. Milled into floorboards, trims and moldings, plywood and veneer, bamboo has strength and stability equal to—or better than—forest hardwoods like maple and red oak. Its mottled pattern, fine grain, and palette of finish colors combine with ease of installation and maintenance to produce a desirable, affordable—truly "green"—wood alternative.

COURTESY MISSOURI BOTANICAL GARDEN LIBRARY

Tulips from Thorton's Temple of Flora. *This April in the Garden Gate Shop: the beautiful Illustrated Garden catalog, tee-shirt, tote bag, and mug.*

The Illustrated Garden

April 16 – August 22, 2004

On Friday, April 16, the new "Illustrated Garden" exhibit opens at the St. Louis Art Museum, presenting to the public for the first time the treasures of the Missouri Botanical Garden's rare book collection. The idea for this collaborative exhibit sprouted when Art Museum curator Francesca Herndon-Consagra first visited the Garden in 2001 and was astonished to discover that the Garden owned not one, but multiple copies of the rare works of Giovanni Battista Ferrari, the subject of her graduate research. Over the last three years, the two institutions have collaborated to develop the exhibit, which will be displayed in the Art Museum's gallery through Sunday, August 22.

From its beginnings as a small collection of horticultural books owned by Garden founder Henry Shaw, the Missouri Botanical Garden Library has grown to over 170,000 volumes, containing a significant portion of the world's accumulated knowledge of plants, and over 10,000 volumes printed before 1850. The Garden's collection of botanical illustration is among the best in the nation, and is distinguished among rare book collections in that its beautiful and fragile volumes remain in use by botanists from around the world…but are rarely seen by the public. The Garden is pleased and privileged to have the opportunity to display these works at the Art Museum, allowing them to be appreciated by a broader audience.

Members' Preview Day

Thursday, April 15th

The "Illustrated Garden" exhibit will be open exclusively for St. Louis Art Museum and Garden members from 10 a.m. to 5 p.m. Curator Francesca Herndon-Consagra will lecture at 1:30 p.m. in the Art Museum auditorium. Seating is limited and is available first come, first served.

Great Garden Guidebook

Ever wondered why there's a row of Osage oranges seemingly in the middle of nowhere behind the Climatron? Or why the real name of the Japanese Garden is *Seiwa-en*? Or what you'll see in the Shoenberg Temperate House in March?

All these questions and more will be answered for Garden fans this spring with the publication of the new *Garden Guidebook* in late April. Designed with beautiful, full-color photos throughout, the new Guidebook is both a lovely souvenir of your visit to the Garden, as well as a source of the most complete, up-to-date information available on the Garden's buildings, collections, and history. Be among the first to get the Guide: reserve your copy by calling (314) 577-5137 or by e-mailing gardengateshop@mobot.org. All members who order by March 31 will receive an additional ten percent discount.

Lewis & Clark Bicentennial

Don't miss the last two weeks of the fantastic "Plants of the Lewis and Clark Expedition" on now in the Ridgway Center. The exhibit features 20 mounted specimens of plants seen by Lewis and Clark, presented by Fay E. Benton and Steve Schaller with quotes from the explorer's journals.

As the anniversary of Lewis and Clark's voyage kicks into high gear throughout St. Louis, gardeners everywhere will rejoice in the Garden's own Lewis & Clark Plant Trail. Over 30 plants seen and recorded by the duo on their voyage are grown at the Garden, and as spring approaches, more and more will be viewable. The Lewis & Clark Plant Trail map is available free to members while supplies last. Plant markers are provided throughout the Garden.

GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

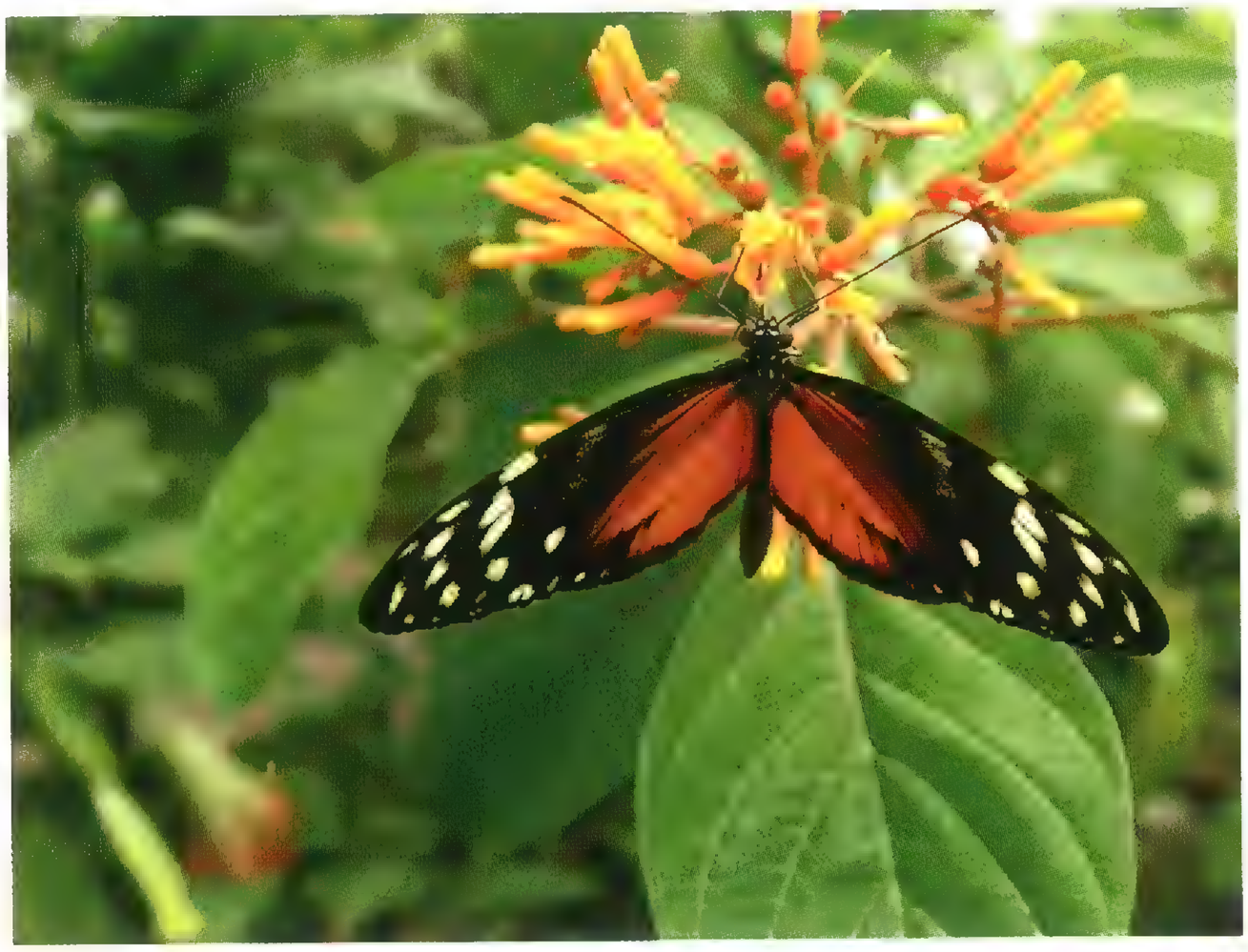


PHOTO CHARLES SCHMIDT

Children explore a world of wonder inside the Sophia M. Sachs Butterfly House and Education Center. Visit the conservatory on a cold day this March and enjoy thousands of tropical butterflies in free flight.

BUTTERFLY HOUSE

Now playing: Shudder Bugs

Continuing until Sunday, May 23. Shudder Bugs at the Butterfly House hosts a few hundred of your closest, grossest friends in an exhibit focusing on some of the creepier spineless species such as maggots, leeches, roaches, and flesh-eating beetles called dermestids, to name a few.

"These animals often live on, or even in, humans," says Joe Norton, director of the Butterfly House. "This exhibit is a fun look at invertebrates we sometimes forget to notice."

Give the Environment a Hand

Saturday, April 17. Learn about recycling, reusing, reinventing, and reducing while making some cool crafts and playing some fun games. Today, one kid's trash will truly be another kid's treasure. Create an ideal environment for your new little plant in a two-liter soda bottle. Play "Frogs-A-Flyin" using a milk jug and a mismatched sock (we all have some of those). Scavenge in our "trash heap" and pull out what can be recycled. Design a door hanger as a daily reminder for everyone in your home or school to do their part to help save the environment. Learn how Mother Nature cleans water…naturally. Both Dierbergs and Schnucks will even provide grocery bags for you own personal environmental message. Activities and crafts free with regular admission.

Shudder Bug Facts

Leeches:

- Leeches have been used in medicine since medieval times. They inject a powerful anticoagulant when they attach to a host.
- Some leeches can reach 10 inches in length.

Flies:

- Some fly larvae are used in medicine today to clean stubborn wounds.

Dermestids:

- Dermestid beetles are often called "museum beetles" as they will eat skins and other preserved specimens.

Roaches:

- There are approximately 3,500 species of roaches, but only 50 or so that might move into your home!

SHAW NATURE RESERVE

For the Birds

Saturday, April 17. Want to know more about birds? Here's your chance to learn what plants attract birds at a family-fun day Saturday, April 17 at the Shaw Nature Reserve. Learn which birds are finicky about housing and food, and how to meet those needs. Take a quick bird identification class and then go on a kid-friendly birding excursion, checklist in hand. Learn how to build a winter-feeding station. See examples of, or even try your hand at, making birdhouses and feeders out of recycled materials. Assemble a birdhouse to take home; try building a bird nest, plus other hands-on fun activities for kids and adults. Pick up free informational brochures and building plans. Lunch is included. Cost is $20 ($16 for Garden members), and preregistration is required. For information, please call (636) 451-3512.

With the beginner or casual birder in mind, there is an optional, adults only, overnight program that includes a Friday evening presentation, dinner, continental breakfast, early morning bird walk with knowledgeable guides, and all Saturday acitivities. Accommodations are dormitory-style in the restored historic log-cabin lodges of the Reserve's new Dana Brown Overnight Education Center. Cost: $75 ($65 Garden members). Please call the number above for details.

PHOTO BY RUTH HOYT

Goldfinch sightings are frequent at Shaw Nature Reserve.

Get onboard the Wilderness Wagon!

Several options for adult tour groups are available at the Shaw Nature Reserve, but the Wilderness Wagon is one of the most fun! Holding up to 28 people, the wagon is pulled on a three-mile gravel road as a naturalist guide describes the Reserve's history, what's in bloom, tallgrass prairie, wetlands, and wildlife. Get off midway at the Maritz Trail House, walk down to the Meramec River, and catch a later wagon back. The Wagon is a great option for families with small children or adults with mobility concerns. Trips depart Saturday and Sunday afternoons in May and June at noon, 1, 2, and 3 p.m. Group wagon tours that include a visit to the restored Bascom House and Whitmire Wildflower Garden are available by reservation. Call (636) 451-3512, extension 6075, for more information.

SNR Signature Wildflower Seed

For just a dollar and a half, you can take home a little piece of the Shaw Nature Reserve today. Every year, volunteers gather the seeds of a variety of Missouri native wildflowers growing at the Reserve, then clean and package them for sale. This year's signature seed offerings include Prairie blazingstar, Compass plant, Purple coneflower, White wild indigo, Prairie dropseed, and about a dozen others. Supplies are limited and are only available at the Shaw Nature Reserve Visitor Center. Stop by today and sow a little bit of the Reserve in your own backyard.

Save the Date

The annual Shaw Nature Reserve Spring Wildflower Sale takes place Saturday, May 8, from 9 a.m. to 4 p.m. Hundreds of varieties of wildflowers, ferns, trees, and shrubs for home landscaping and attracting wildlife. For the first time ever, Garden members will get a sneak preview of the sale before it is open to the public on Friday, May 7, from 4 to 7:30 p.m.

SPRINGTIME AT THE GARDEN

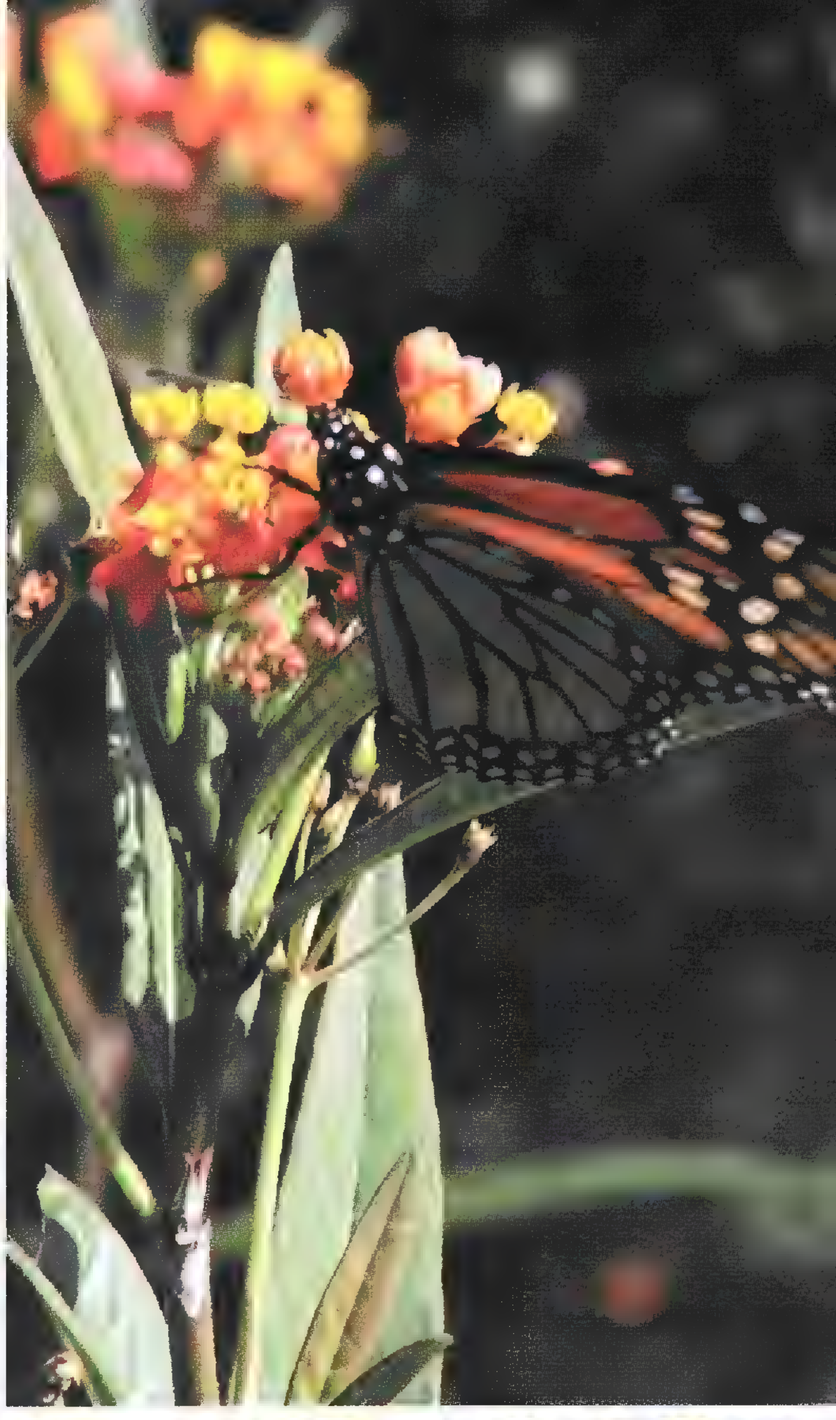


PHOTO BY LEE SHANNON RHOADES

Two of the worst invasive plant species found in St. Louis: Lonicera japonica, *Japanese honeysuckle, and* Lythrum salicaria, *Purple loosestrife.*

NOT ALL ALIEN INVADERS ARE FROM OUTER SPACE!

by Kimberlie McCue, Ph.D.

In the mid-1800s residents of the United States began importing from Asia a lovely, sweet-smelling plant to use as an ornamental in their home landscapes. The plant was hardy, produced abundant fragrant flowers and pretty red fruits. It was a very popular plant—but then things went terribly wrong. The fruits of the plant were eaten by birds and once inside the UFOs (Untethered Feathered Objects), the seeds dispersed over the garden fence and the alien invasion had begun!

Alien invasive plants like the bush honeysuckle just described, that is, plants not native to a given area, spread out into the foreign landscape silently and swiftly, displacing native wildflowers, engulfing wooded areas, altering ecosystems, and causing great economic and ecological harm. The U.S. spends billions of dollars each year combating them, and invasive plants are a major threat to endangered species.

But how did the invaders get here? Like bush honeysuckle, many of the plants now causing problems were brought here intentionally to be used in gardens, for landscaping, to provide wildlife habitat and erosion control. Most of the non-native plants used for these purposes are well-behaved and cause no problem, but the small percentage that becomes invasive has become a real concern.

The Missouri Botanical Garden has taken a leadership role in limiting the spread of invasive plants and the threats they pose to native species. At a recent meeting, the Garden's Board of Trustees formally adopted the Codes of Conduct Relevant to Invasive Species, developed out of an international workshop held at the Garden.* The Codes will inform practices in all areas of the Garden, from the plants displayed, to the plants promoted for home gardeners, to plant material shared for research purposes, and more.

Currently one of only three gardens in the country to begin implementation of the Codes, the Garden hopes to serve as a model

Help Stop the Invasion!

As a home gardener, you can be part of the effort to stop invasive plants! Here's how:

- Educate yourself on which plants are invasive in your area and grow only non-invasive species. Some of the worst invasive plants in the St. Louis region are: Bush honeysuckle (*Lonicera maackii*), Purple loosestrife (*Lythrum salicaria*), Multiflora rose (*Rosa multiflora*), Garlic mustard (*Alliaria petiolata*), and Japanese honeysuckle (*Lonicera japonica*).
- Don't "pack a pest" when traveling. Plants brought in from other regions or countries can become invasive at home.
- Don't release aquarium plants or other aquatic plants into natural waterways.
- Volunteer at your local park, refuge, or wildlife area such as the Shaw Nature Reserve to help remove invasive species.

for other gardens and to work with local and regional entities to spread the word about invasive plants and to develop strategies to stop their spread. MBG will be working with the Horticulture Co-op of Metro St. Louis to address the issue from the perspective of the horticulture industry and with the Missouri Department of Conservation to develop educational and instructional material for both lay people and professionals.

What changes will you see? Over time, changes at the Garden will include removal of some invasive plants from the Kemper Center and other gardens and the posting of new interpretive signs. New information on invasive plants will be made available to our visitors. MBG will also be working to find alternatives to invasive plants now commonly used in home gardening. Stay tuned for new information on identifying, removing, and replacing invasive plants!

*See the Codes and read about the workshop at www.mobot.org/invasives.

Kimberlie McCue

PHOTO BY KATE MOORE

Dr. Kimberlie McCue, Conservation Coordinator, has been with the Garden since completing her graduate degree at the University of Missouri–Columbia in 1997. Working closely with the Center for Plant Conservation, Kim oversees the Garden's program to conserve rare and endangered plants native to the Midwest. The work of the program includes building a seed bank of native endangered plants and ultimately returning these plants to secure status in the wild. Kim also works with the Garden's Applied Research Department developing strategies to conserve rare endemic medicinal plants in the Republic of Georgia. Two years ago, Kim led the effort to develop a comprehensive invasive plant policy for the Garden and is now coordinating the implementation of the policy across all Garden campuses.

PLANTS IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

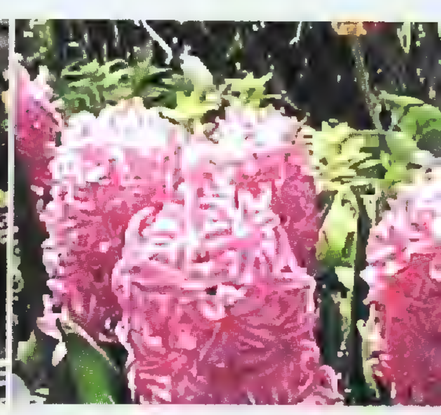
March

camellias in the Linnean House

cherry tree

daffodil

Temperate House



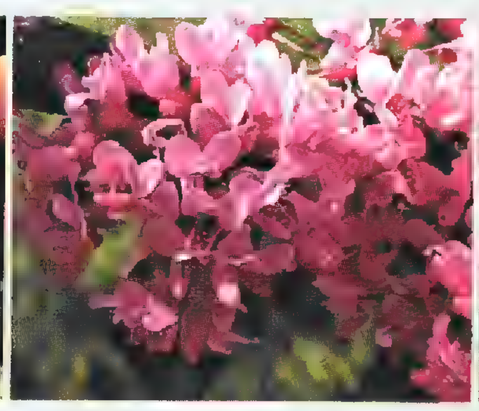
hyacinth

April

azaleas

forsythia

tulip



redbud

magnolia

FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

Aesculus pavia
Red buckeye

Native to southeastern Missouri, where it grows in low, wooded valleys and along streams, the Red buckeye is a smaller, flashier cousin of the common Ohio buckeye. Growing 12–20 feet tall, the Red buckeye features red, tubular flowers in spring which attract hummingbirds and leathery, beige fruit capsules enclosing 1–3 seeds (red buckeyes) that ripen in fall. Best grown with some afternoon shade. Leaves are nondescript in fall. The seeds are poisonous and avoided by most wildlife.

Plants of Merit ™ are selected by Garden staff for outstanding qualities and dependable performance in the St. Louis area. View all current Plants of Merit on the website: www.mobot.org/gardeninghelp.

PHOTOS BY ALBERT HIRSON

Saturday, March 20. On the first day of spring when thoughts turn to gardening, learn how to improve your soil, prepare your lawn, and choose plants that thrive in the St. Louis area at the first annual SpringDig, Saturday, March 20, from 9:30 a.m. to 3:30 p.m. Formerly known as Dirt Festival, this popular annual event has been expanded to include a much wider variety of lawn and garden topics with a host of local experts.

"This full-day gardening event is designed to meet the needs of local St. Louis gardeners, especially beginning and intermediate gardeners, and acquaint them with the wealth of gardening help available from the Garden, be it printed, online, or in person," says Glenn Kopp, Instructional Coordinator for Adult Programs.

Bring along a soil sample for the free, do-it-yourself pH test between 11 a.m. and 2 p.m., and hear horticulturists, instructors, and master gardeners from the William T. Kemper Center for Home Gardening discuss topics such as: "Top 20 Problems for St. Louis Gardeners," "The Plants of Merit™ Collection," "What Every Gardener Should Know About Soil," "The Perfect Lawn," "20 Best Perennials for St. Louis," and "Best Native Shrubs for Attracting Butterflies and Hummingbirds."

Cost of the program is $40 ($35 for Garden members). Seating is limited and advance registration is required. To register or for more information, call (314) 577-9441.

Saturday, April 17. Learn how to create a well-designed garden with personality and ease at *Southern Living* magazine's Gardening School, Saturday, April 17. The three-session seminar "You Can Do It! Garden Basics to Big Ideas" will be held from 9 a.m. to 2 p.m. in the Shoenberg Auditorium. Presenter Dr. Richard Ludwig is writer and host of "The Southern Gardener" on PBS. Cost of the program is $40 ($35 for Garden members). Seating is limited and advance registration is required. To register or for more information, call (314) 577-0254.

the website...www.mobot.org

Plant Finder: Cultural information on over 2,000 plants growing in the Kemper display gardens.

Find-A-Plant: Search the living plant database to find what plants are growing in the Garden and where.

Gardening Help: Information on over 300 gardening topics, including all Hortline messages.

Integrated Pest Management: Diagnostic and control measures for nearly 100 of the most common insect, disease, and environmental problems encountered in Missouri.

Plants of Merit: Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

Plants in Bloom: Updated weekly at the Garden, along with current photos, updated biweekly.

The Kemper Center for Home Gardening's Adult Education course range from fine art, to on-grounds tours, to flower arranging and cooking.

From Asian Cuisine to Zoysia Lawn care, the Garden's spring classes appeal to a diverse range of interests and appetites. More than 45 new listings are included in the 107 classes and tours offered for adults and families.

New plant care classes include "Gardening with Kids" to get those little green thumbs hooked on horticulture and "Gardening as an Artform" with the Garden's designer of Victorian delights Daryl Cimaglia. Explore the Garden with an expert to guide you: horticulture staff members and master gardeners will lead informative walking tours through the English Woodland and Chinese Garden, as well as the Native Plants of the Kemper Center.

Horticulture professionals and advanced gardeners will appreciate "Summer Survivors," a series of plants recommended for their hardiness in St. Louis's sweltering heat and, in response to the renewed popularity of this tricky plant for the region, "Boxwoods for St. Louis."

Spark your creativity with arts and crafts classes, with new topics each season like "Decoupage Flower Pots" and "Outdoor Decorating."

Join the Garden Café's executive chef for "A Midsummer Night's Grill" and learn to prepare marinades for a complete meal with grilled flavor, from entrée to dessert. Complement the meal with a course on "Summer Wines." Other new cooking classes focus on fresh "Sensational Summer Salads," the art and science of "Cooking with Smoke," and spicing up "Basic Meat Cooking Skills." "A Taste of Portugal" is one of five trendy, new ethnic cooking classes offered this spring.

Whether your interests lie in "Nature Prints" or "Digital Prints," there's something for everyone.

Classes take place on Garden grounds in St. Louis, at the EarthWays Home in midtown, at Shaw Nature Reserve in Gray Summit, at the Daniel Boone Library in Ellisville, and this spring—for the first time—at Lewis & Clark Community College's Edwardsville, Illinois Center.

did you get your catalog?

Garden members get first crack at the classes, which do fill up quickly, and should have received their course catalogs in February's mail. If yours has gone astray, check out the classes online at the Garden's website: www.mobot.org/gardeninghelp. Members also receive discounts on all classes of up to 20%. For more information, call (314) 577-9441.

THE GENTLE ART OF PRUNING

The word "prune" entered English through a Middle French verb *provigner*, "to layer." Far from the chainsaw, weedwhacker, and assorted hatchet jobs many hapless homeowners wreak upon their trees and shrubs, true pruning—the gentle art—is designed to allow better layering of light, air, and vegetative material for a healthier, happier, more attractive plant. And it is indeed an artform, one that must be learned through time and experience, practicing and watching the results of one's handiwork.

"To become a better pruner, you must observe how that particular plant responds to your pruning and adjust accordingly," says Senior Landscape Horticulturist Greg Cadice, who, over the course of his 19 years in the Garden, has certainly observed and adjusted quite a bit. "You prune a plant for three-to-five years down the road. You are not pruning for tomorrow, but for years ahead."

"Patience is essential," adds Senior Landscape Horticulturist Scott McCracken, who joined the Garden the year after Cadice. "We can finish with mulching, but we are never finished with pruning."

Together with relative newcomer Greg Jacobsmeyer, who joined the Garden in 1999, Cadice and McCracken are responsible for the pruning in the Garden's area requiring the most careful pruning of all…the Japanese Garden.

"The challenge is maintaining the scale established by Koichi Kawana," says Cadice. Both Cadice and McCracken worked directly with this legendary Japanese garden designer.

"We prune things here so that they do not appear to have been pruned in order to preserve the vision of the Japanese Garden that people expect to see," says Jacobsmeyer.

"Many trees in *Seiwa-en* are 27 years old, but you wouldn't know it," says McCracken, "The five-foot tall Ohsio beni maple, for example, is 27 years old."

Cadice, Jacobsmeyer, and McCracken are like old school friends, completing each others' sentences and complimenting one another on a particularly well-put phrase. What becomes clear after just a few minutes in their company is that these men share a passion for the proper maintenance and training of trees and shrubs. When asked what they like least about the job, they answer almost in unison: "Nothing. We all love to prune."

The two main goals of pruning are: to enhance health by allowing better light and air into the interior of the plant, and to enhance appearance by sculpting a plant that is alive in layers all the way down to its core. Winter and early spring are the best time for pruning many species, so we stopped by to consult the experts.

PHOTOS BY JACK JENNINGS AND LISA FRANCIS

The Japanese Garden is a showplace of pruning techniques. From top: Greg Jacobsmeyer demonstrates safe technique in a tree. Greg Cadice makes "the hardest cut," that is, the first cut in pruning which determines "where the rest of the prune will go." At bottom (left to right): Greg Cadice, Scott McCracken, and Greg Jacobsmeyer take a brief break from winter pruning chores to have their picture taken.

Here are their top six tips for achieving the professional prune.

Use good-quality bypass pruners. The trio wholeheartedly agrees on this point. Pruners, it turns out, are a highly important—and deeply personal—tool for the would-be pruner. They come in all shapes, sizes, weights, and for left and right hands, but the important thing is to buy a good-quality pair: they will last a lifetime with proper care and can be kept sharp. Bypass pruners, which allow the blades to bypass one another much like a scissors, slice the plant cleanly, allowing better healing. The alternative, anvil pruners with blades that meet, tend to crush the branch, rather than slice, creating more opportunity for disease.

Do your homework. Inspect your trees and shrubs, their health, their growth aspect. "Your goal should be not to work against the plant, but to accentuate it," says Cadice. Have an idea of what you want the finished plant to look like. For example, the dominant style in the Japanese Garden is the *tama-mono*, or "semi-sphere" a low, rounded shape achieved by slow, careful pruning of layers of growth all the way to the heart of the plant. Whatever you do, don't reach for the electric as a shortcut. "A common mistake novice pruners make is shearing: it's a shrub, not a sheep!" says McCracken. Shearing can actually have the opposite of the desired effect: creating a "green meatball" with living plant on the outside layer only. "In that situation," adds McCracken, "the loss of even one branch can create a big hole."

Pick your season. There is no hard and fast rule for proper time of year to prune. The truth is that the experts can prune year-round, and you may see them doing so in the Japanese Garden, but amateurs are advised to take a chill. In winter, when trees are defoliated, their structure is more apparent and cold temperatures can slow the sap flow from fresh cuts. However, softwoods such as Dogwood and Birch, are best pruned May through August ("any month without an R," says Cadice).

Fools rush in. "You can always prune more, but you can't put the branches back on," warns Jacobsmeyer. Go slowly, step back, get off the ladder, and survey your work. Less is definitely more.

Practice good technique. Using your good-quality, sharp, bypass pruners, cut straight and clean. Do not twist the wrist. Do not tear the bark. Let the pruners do the work. Start at the top of the plant to establish the height. Do not prune more than one-third of the plant at once. Prune stems to right above a bud or leaf. Prune in layers, "opening up the plant" to light and air on the inside. Keep the mental image of what the finished plant will look like. Do not cut too much; you can always take more out.

Ask questions, take a class. "Don't hesitate to ask a question if you see us out in the Garden," says Jacobsmeyer. The Kemper Center for Home Gardening regularly offers adult education classes in basic and more specialized pruning. Both Cadice and McCracken are instructors. The list of current classes is on the Garden's website at www.mobot.org/gardeninghelp.

PHOTO BY ELIZABETH MCNULTY

A NICE QUIET EVENING WITH A POTATO

In honor of St. Patrick's Day, we present an edited version of a classic introductory botany article by Edgar Anderson, Garden Director 1954–56. "A Nice Quiet Evening with a Potato " originally appeared in the April, 1955 issue of the *Bulletin*.

People connected with our great universities tell me that old-fashioned botany is not a popular subject these days. It may be that these academic experts do indeed know what they are talking about, but to one who sits in the Director's office of a big botanical garden the problem is not the lack of such an interest, but rather how to find time to answer all the letters and the telephone calls of people who want to know more about plants. Inquiries pour in; publishers want books written; men's garden clubs, women's garden clubs want lectures or even whole courses in botany; plain John Doe and Jennie Doe want to know this, that, and the other thing. [...]

[W]hat does a botanical garden do about this flood of requests? Well, everything it can. We answer telephone calls and letters, we give lectures, we organize courses, we write books if we can find the time, but most persistently of all we persuade the intelligent public that if they love plants they need few books; all they need is enough enthusiasm to study the plants themselves. These people who come to us in such numbers are adults. If one is dealing with adults the best thing to do is to show them how to help themselves.

All of which brings us back to our title, "A nice quiet evening with a potato." If you're an adult and you want to teach yourself how to find out about plants there is no more convenient way to start. Get a potato, a nice big one, out of the bin, wash it off carefully, and sit down in a comfortable chair with a good light coming over your shoulder. Turn the potato over in your hands. Don't be too tense and earnest. If you can get a friend with kindred interests to join you, so much the better, and if you talk about other things now and then it's all to the good. Just try to build up a little intelligent enthusiasm for this starchy sphere, which previously you have taken so for granted.

Well, let's look at the potato. Most obviously it has eyes. Nearly everybody knows this much, yet have you really ever looked a potato in the eye? There is something more or less like an arching eyebrow with an eye-hollow within the arch and coming up out of

this hollow are little dark buds. Now notice the arching eyebrows. They don't arch any old which way; they are all focused in the same direction. To our surprise we will learn that each potato has a well-defined front end and an equally well-defined rear end and that these are very different in appearance. At the front end the eyes are clustered closely together, the buds always frontward from the arching brow. This brow is really a kind of leaf, or the mark where such a scale leaf was borne and then fell off. Sometimes new potatoes will show delicate little membrane-like scales rising up off the tuber's surface in these arching lines; in the ordinary grocery-store spud the membranaceous scale has usually gone by and only a faintly curving scar is left. Now turn the potato about and look at the other end, then examine the whole region in between. At the other extreme from the active apex with its closely clustered buds you will find either a piece of the little round underground stem on which the potato was formed or the neat little circular scar where this stem was broken off.

A potato, you see, is what botanists call a tuber. It is just the swollen coalesced buds at the end of an underground stem. It is not a root; it is part of a true stem though borne underground. Like all stems, it has joints (the technical word is nodes) at which leaves (or leaf-like scales) are borne and it is in the axils of these scales that all the new branch stems arise when the potato is sprouted. This is how one tells stems from roots in those plants with both underground stems and true roots. Stems have nodes (joints); roots don't. Stems have leaves or scales at the nodes; roots have neither. If you find a root with some little scales on it at fairly regular intervals, it isn't a root. It's an underground stem of some sort. Finally, stems are precise, in their pattern of growing; they branch only in the axils of the leaves or scales; roots branch very irregularly.

Our humble potato is therefore a much more precisely organized bit of life than one would have imagined. Like virtually all life it is highly polarized. It has a head end, an apex, at which growth is most active. It has an innate orientation to up and down, to frontward and backward. Plant your potato in a bowl of sand or sawdust or vermiculite, keep it well watered and watch its development for a few weeks. See the way the new stems sprout out from the buds near the apex. Plant another potato in the garden and dig it up and wash off the roots after the plant is well developed. You will be able to see for yourself the difference between the true roots and the jointed underground stem on which the potatoes are borne. [...]

If the potato interests you after you have learned something of how it is put together, go on from there. Look at some of the other brown things we dig up out of the earth and figure out for yourself just how much of each one is stem, what is root, and what is leaf. A gladiolus bulb, for instance, is little leaves on top of a thickened stem; an onion is overlapping juicy leaves attached to a small central stem; an iris plant is mostly a jointed horizontal stem with leaves and roots coming off at the nodes and with occasional upright flowering branches rising from the axils of the leaves. After a few such attempts you'll begin to understand about roots and stems and leaves. The problem of whether a stem is a stem and a root a root turns out to be more complicated than you used to think. A stem is a very definite kind of thing; even though it grows underground and looks like a root it is still a stem. It has nodes and it branches only at the nodes. It can't develop any old way, like a root, but follows a definite pattern. Having set up this stem complexity, nature has been astute in using it in various ways. Each kind of plant has its own distinctive set of internode and stem-branching patterns. They make that kind of plant what it fundamentally is; if you are going to manage the plant efficiently you need first of all to comprehend these underlying patterns.

So if plants are beginning to interest you and you wish you knew more about them, no need to sigh for lost opportunities, no need for that magic book which will tell you painlessly the very things you wish you knew. Sit down quietly with a potato, a nice large, clean potato. Relax in your chair. Take a friendly interest in this succulent brown blob, which you have previously ignored. Let it become a simple introduction to learning about plants from plants themselves. Take your first step toward botanical insight by spending a nice quiet evening with a potato.

Edgar Anderson

PHOTO COURTESY MBG ARCHIVES

Edgar Anderson was a man of many talents. Described by a colleague as "one of the top 50 American botanists," he was affiliated with the Garden in one way or another from 1922, when first arriving from Harvard to teach at Washington University, until his death in 1969, briefly serving as Director of the Garden in 1954-56. World famous as a scientist for his research on corn, Anderson was beloved by an audience of laypeople for his breezy, informal *Bulletin* articles on a variety of subjects that helped greatly to popularize botanical science among home gardeners.

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Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

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MARCH:
Watercolorist Jean McMullen
Painting demonstrations:
Sundays, March 7 and 14, 1 to 4 p.m.

APRIL:
Watercolorist Marylou Barrow
Merchandise and paintings available all month.

Special offers and events!

Food tastings:
Every Wed. from noon to 3 p.m., April 10, 10:30 a.m. to 2:30 p.m., and April 16, noon to 3 p.m.

March 6–7
Members receive an additional 10% off all orchids, orchid books, orchid pots and fertilizers.

March 13
Children's story time, 11 a.m.

March 13–14
Silver Cat jewelry trunk show, 10 a.m. to 5 p.m.

March 24
Members receive 20% off all merchandise.

April 3
Free Jelly Belly™ samples while supplies last

Children's story time, 11 a.m.

April 14
Susan Munger and Charlotte Staub Thomas will sign their book *Common to This Country: Botanical Discoveries of Lewis and Clark*, noon

April 16
Members receive 20% off all merchandise.

April 17–18
Del Sol jewelry trunk show, 10 a.m. to 5 p.m.

April 24
Celebrate Earth day at the Shop—ask about our great recycled products and books on environmental topics.

April 30–May 2
Herb Society Benefit: sales on herbs and their cookbook. Members will be on hand to answer questions.

Mr. Robert L. Schulze, Sr.
Ms. Judy Servais

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Mr. and Mrs. Charles Accardi
Robert and Consuelo Adam
Mrs. Miriam Egner Johnson
Mr. and Mrs. Bernhardt W. Klippel III
Miss Nancy Schwider
Laura J. Torbert

Mr. Jeff Shapiro
Mr. Burton D. Ackerman

Mr. Donald M. Shocklee
Mrs. Joanne Shocklee
Miss Mary Jo Shocklee and
Mr. Sean Eslick

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Jack Baty
M. Carolyn Baum
Christine Berg
Diane Crader
Beth Daniels
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Maureen Egan-Palmer
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Monica Perlmutter
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Mother of Karen Sterbenz
Mr. and Mrs. Robert Schwartz

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Mrs. Caroline F. Vassallo
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Miss Wendy B. Wuertenbaecher
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Mr. Stan Zawalnicki
Mr. and Mrs. Melvin C. Bahle

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Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from November 15, 2003 through January 15, 2004.

bronze signature bricks

Hugo H. and Mathilda K. Schueren
Mr. Hugo F. Schueren

Masaharu (Mark) and Hiroko Takano
Friends and Family of Masaharu Takano

Melody Smail Visser
Roxie Walker

Maxine and Bill Schuler
Maxine and Bill Schuler

engraved clay bri

Peter F. Amoroso
Joanne Raab

Charlotte Boman
The College School, Class of 2008

Lois Jean Bovard
Kathie Sears

David Charles Bradford
Scott Rombach

Sharon and Gordon Burkhart
Sharon and Gordon Burkhart

Edward W. and Dorothy S. Cline
Dorothy Jean Cline

Virginia Cowger
Dice Cowger

Louise B. Davidson
Louise Davidson

Charles Heller, Jr.
Lisa, Tracy, Jason, Kenny and Rob Krechnyak

Chuck and Linda Huebner
Cynthia and Richard Arnell and Family
Luella Huebner
Chris and Jennifer Leuthauser and Family
Mark Leuthauser and Family
Norma Leuthauser

Nick, Zach and Maddie Johnston
Bruce and Jeannie Johnston

Stas, Anna and Connor Johnston
Rick and Kelli Johnston

Richard G. Kamp
Robyn Gettemeyer
Linda Kamp Waugh

Robert and Linda Malench
Elizabeth Shine

William S. "Bill" McDonald
Harold Beasley
Marge and Paul Bernier
Jackie and Bob Bosch
Ann and Bob Brewer
June and Tom Hirlinger
Gerry and Glen Jaeger
Ginny Kelly
Sis and Frank Kropiunik
Marlene and Bob Nickels
Bernie O'Connor
Rita Pelger
Donna and Rex Riordan
Mary Alice Voorhees

Marty and Vickie Meagher
MBG Daylily Association
Chick Buehrig
Jason Delaney
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Marty Meagher
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Carrol Wrather

Arthur E. Pepmiller
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Mr. James W. Prange

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Diane Rademacher
Ralph and Charleen Sartori

Henry and Marjorie Reitz
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Bob and Nellie Richter
Susan Curran

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Jim and Donna Harris

Michael and Karen Schmidt
Michael and Karen Schmidt

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Jane W. Seelig

A. Howard Smith
Mr. A. Howard Smith

Shirley Koppen Smith
The Always Dinner Sometime Bridge Club
Fred and Sue Freeman
Mark and Mer Newport
Al and Mazi Roehm
Bob and Jo Ruethain
Bill and Mim Zukoski

Ben F. and Lottie W. Stammerjohn
Dorothy Jean Cline

Donald and Elnora Troeger
Jim and Donna Harris

Susan Weimann Vorih
Marc Vorih

KIDSTUFF

PHOTO BY TIM PARKER

Children's Garden Updates

Excitement is building as the Garden draws nearer to the springtime groundbreaking for the Doris I. Schnuck Children's Garden. Joining the generous contributions of the Schnuck family, Robert and Jane Tschudy, and A.G. Edwards, Monsanto announced a major gift to the Garden in February. The date of the official "start" of construction has been set. On Saturday, May 8, at 11 a.m., Garden members are invited to bring their kids and grandkids to this historic event. Children will receive kids' construction hats and shovels (while supplies last) and be invited to participate in the ground breaking.

Children's Garden Groundbreaking
Sat., May 8, 11 a.m.
Behind the Climatron

Who's Your Buddy?

Introducing..."Garden Buds," a fun, new program allowing adults and preschoolers to explore together the beauty and natural wonders of the Garden. Designed for three- to five-year-olds accompanied by an adult, monthly "Garden Buds" activities will address such early childhood curiosities as why flowers smell sweet or how bees make honey. Each session includes a visit to the Garden grounds, followed by a hands-on project and a snack. Instructors from the Garden's Education Division lead the 90-minute class.

"Preschoolers have a strong sense of wonder and curiosity about the natural world. It is a perfect time to discover the magic and mysteries of the Garden with them," said Teresa Mulvihill, instructor.

Cost is $18 per child per session and free for adults. All children must be accompanied by an adult, and no child under age three will be admitted. One class is offered at three different times each month through May. Go to the Garden's website for details: www.mobot.org. Look under "Activities for Kids and Families" on the Education page. Advance registration is required, so please call (314) 577-9506.

Sprouts in Spring

Only a few spots remain for the Garden's new "Little Sprouts" program. Watch your two- to four-year-old bloom as they discover the beauty of the Garden on short walks with age-appropriate activities and tips for guiding your growing toddler. The eight-week series of 90-minute programs on Tuesday mornings at 9:30 begins March 23. $85 fee ($76.50 for Garden members). Advance registration is required; call (314) 577-0254.

Members Register Early for Camp MBG!

Curious young minds can explore plants, birds, bugs, dinosaurs, worms, ecosystems, and more this summer at Camp MBG. Formerly known as Summer Science Academy, Camp MBG is designed for students entering first through eighth grades with classes held in June, July, and August. Camp MBG kids learn about nature and how to protect it through fun activities and adventures building on science they learn in school. Topics range from "The Dirty World of Worms" and "Lewis, Clark, and the Corps of Discovery" for younger children to "Wizard Science" and "Crime Scene Investigators" for older kids. Courses offer hands-on learning experiences at the Garden, Litzsinger Road Ecology Center, and Shaw Nature Reserve. Classes fill up quickly, but Garden members are allowed to register early until Friday, March 19. Download a copy of the course catalog from the Garden's website, or call (314) 577-0233 to request one by mail.

Check out what some of the parents have been saying:

"My children both said their program was great! Several weeks later and they are still vigilantly caring for their plants."
James S., dad

"During the night hike at Shaw Nature Reserve, my son heard a beaver slap its tail on the water...an experience he still talks about." Rosalie C., mom

"Hands down this was my daughter's favorite camp this summer. She's looking forward to other camps at MBG."
Matt G., dad

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CALENDAR OF EVENTS

March

Now through Sun. Mar. 14
"Plants of the Lewis and Clark Expedition" 9 a.m. to 5 p.m. RC.

"An Orchid Romance" annual flower show.

Now through Sun., May 23
"Shudder Bugs!" See page 14 for details.

Wed., Mar. 17
Little Shop Around the Corner Opens. See page 11 for details.

Fri. to Sun., Mar. 19-21
"Finishings and Furnishings" Weekend. See page 13 for details. EH.

Sat., Mar. 20
Gardening Help "SpringDig." Presentations See page 20 for details.

Wed., Mar. 24
**Members' Day. "The Best St. Louis Landscape" with Ken Miller. See page 6 for details. 11 a.m. RC.

Sun., Mar. 28
The Laclede Quartet performs at Classic 99's "From the Garden, Live."® Noon. Free. Call (314) 725-0099 for tickets. RC.

April

Fri., Apr. 2
Arbor Day tree giveaway. See page 7 for details.

Sat., Apr. 3
** Members' Event. Eggstravaganza. See page 6 for details.

Sat. & Sun., Apr. 3 & 4
Mid-America Regional Lily Society sale. 9 a.m. to 5 p.m. RC.

Sun., Apr. 4
Arianna String Quartet performs at Classic 99's "From the Garden, Live."® Noon. Free. Call (314) 725-0099 for tickets. RC.

Sat., Apr. 10
The 2004 St. Louis Blooms series launches with "Bloomin' Bulbs." See pages 8–9 for details.

Sat. & Sun., Apr. 10 & 11
Greater St. Louis Daffodil Society show. Sat. 12 to 5 p.m., Sun. 9 a.m. to 5 p.m. RC.

Mon., Apr. 12 through Fri., May 21
Lewis and Clark exhibition by Charlotte Thomas. 9 a.m. to 5 p.m. RC.

Thurs., Apr. 15
**Members' Event. The "Illustrated Garden" exhibit preview at the St. Louis Art Museum. See page 12 for details.

Dr. Spencer Barrett of the University of Toronto will lecture on "Mating Systems in Daffodils." The 2004 John Dwyer Lecture in Biology is co-sponsored by the Garden and Saint Louis University. 4 p.m. RC.

Fri., Apr. 16
**Members' Day. "Contain Yourself!" with Jim Wilson. See page 6 for details. 10 a.m. RC.

Fri. & Sat., Apr. 16 & 17
Visitors can make their own 100% recycled paper, a special feature of "Earth Day Around Town." Free for members. Call (314) 577-0220. EH.

Sat., Apr. 17
Southern Living Magazine's Gardening School. See page 20 for details.

"For the Birds." See page 15 for details. SNR

Earth Day kids recycling activities. See page 14 for details. BH.

Sat. & Sun., Apr. 17 & 18
The 11th annual Grand South Grand House and Garden Tour. 11 a.m. to 5 p.m. Tickets are $16 ($14 in advance) and may be purchased at the Garden Gate Shop.

Sun., Apr. 18
St. Louis Gateway Singers perform at Classic 99's "From the Garden, Live."® Noon. Free. Call (314) 725-0099 for tickets. RC.

Mid-America Dance Troupe presents "About Town," a repertoire of athletic, entertaining modern dances chosen as audience favorites. 2 p.m. Outdoors on Spoehrer Plaza.

Mon., Apr. 19 through Sun. 25
Illinois Appreciation Week. Illinois residents receive two-for-one admission, a special gift when becoming a member, and a 10% discount in the Garden Gate Shop with proof of residency.

Thurs. & Fri., Apr. 22 & 23
Earth Day Symposium. See page 7 for details.

Easter Brunch buffet at the Garden Café
Sun. Apr., 11
Reservations only: (314) 577-9530
Adults $24.95; children $11.95
(5 years and younger free)

garden café
(314) 577–0200
fax: (314) 577–9216
e-mail: catering@mobot.org

Sat., Apr. 24
Earth Day celebration and T'ai Chi Day. See page 7 for details.

Sat., Apr. 24
Classic 99's "Young Heroes in Music."® 10 a.m. Free. Call (314) 725-0099 for tickets. RC.

Sun., Apr. 25
Hanser-McClellan Guitar Duo perform at Classic 99's "From the Garden, Live."® Noon. Free. Call (314) 725-0099 for tickets. RC.

"A Garden of Song" concert by the Carondelet Women's and Children's Choruses, directed by Joan Whittemore. 3 p.m. RC.

Flower Sunday at Christ Church Cathedral. See page 7 for details.

Thurs., Apr. 29
Horticulture Plant Sale. See page 7 for details.

Fri., May 7
** Members' Preview. Spring Wildflower Sale.

Upcoming

4 to 7:30 p.m. SNR

Sat., May 8
Children's Garden ground breaking. 11 a.m. See page 30. for details.

Spring Wildflower Sale. See page 15 for details. SNR.

Sat., May 13
**Members' Event. Spring Luncheon and Fashion Show. See page 6 for details.

the key

CA = Cohen Amphitheater	GGS = Garden Gate Shop	MC = Monsanto Center	SP = Spink Pavilion
CL = Climatron	JG = Japanese Garden	RC = Ridgway Center	** denotes a Members-only event.
EH = EarthWays Home	KC = Kemper Center	SNR = Shaw Nature Reserve	$ denotes an additional fee.

All events are free with admission or membership unless otherwise noted.

YELLOW CAMELLIAS?

Camellia chrysantha is an extremely rare species restricted to a subtropical region in southern China and Vietnam. Described in 1965, the species is of particular interest to horticulturists because most Camellias produce white, pink, or red flowers. The yellow Camellia is one of the last to flower in the Linnean House, generally blooming from early to mid-March and even into early April.

Contact Information

Events hotline:	(314) 577-9400
Toll free 1-800-642-8842	
Garden Café:	(314) 577-5196
Daily, 9 a.m. to 5 p.m. (Wed. & Sat. from 7 a.m.)	
Garden Gate Shop:	(314) 577-5137
Daily, 9 a.m. to 5:30 p.m.	
Horticulture Answer Service:	(314) 577-5143
Weekdays, 9 a.m. to noon	
Main switch	(314) 577-5100
Children's Education:	(314) 577-5140
Communications:	(314) 577-0254
Composting Hotline:	(314) 577-9555
Continuing Education:	(314) 577-9441
Corporate Partners:	(314) 577-9495
Development:	(314) 577-5120
Facility Rental:	(314) 577-0200
Group Tours:	(314) 577-5140
Henry Shaw Society:	(314) 577-0858
Library:	(314) 577-5155
Membership:	(314) 577-5118
Planned Gifts:	(314) 577-9455
Senior Programs:	(314) 577-9506
Tribute Gifts:	(314) 577-0291
Volunteer Services:	(314) 577-5187

Garden Family

Butterfly House:	Faust Park, Chesterfield, MO. (636) 530-0076
EarthWays Home:	3617 Grandel Square in Grand Center, St. Louis, MO. (314) 577-0220
Shaw Nature Reserve:	Hwy. 100 & I-44, Gray Summit, MO (636) 451-3512

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. (and Wednesday evenings in summer 2004). Parking is free.

Admission
- Free for members
- General admission is $7
  $3 for St. Louis City/County residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County residents.
- Children age 12 and under—free.
- Admission free to St. Louis City/County residents until noon every Wednesday and Saturday throughout the year, (except Japanese Festival and Best of Missouri Market).
- Special events may require an additional fee.

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MISSOURI BOTANICAL GARDEN

Bulletin

May/June 2004 Vol. 92, No. 3

Coming up Roses

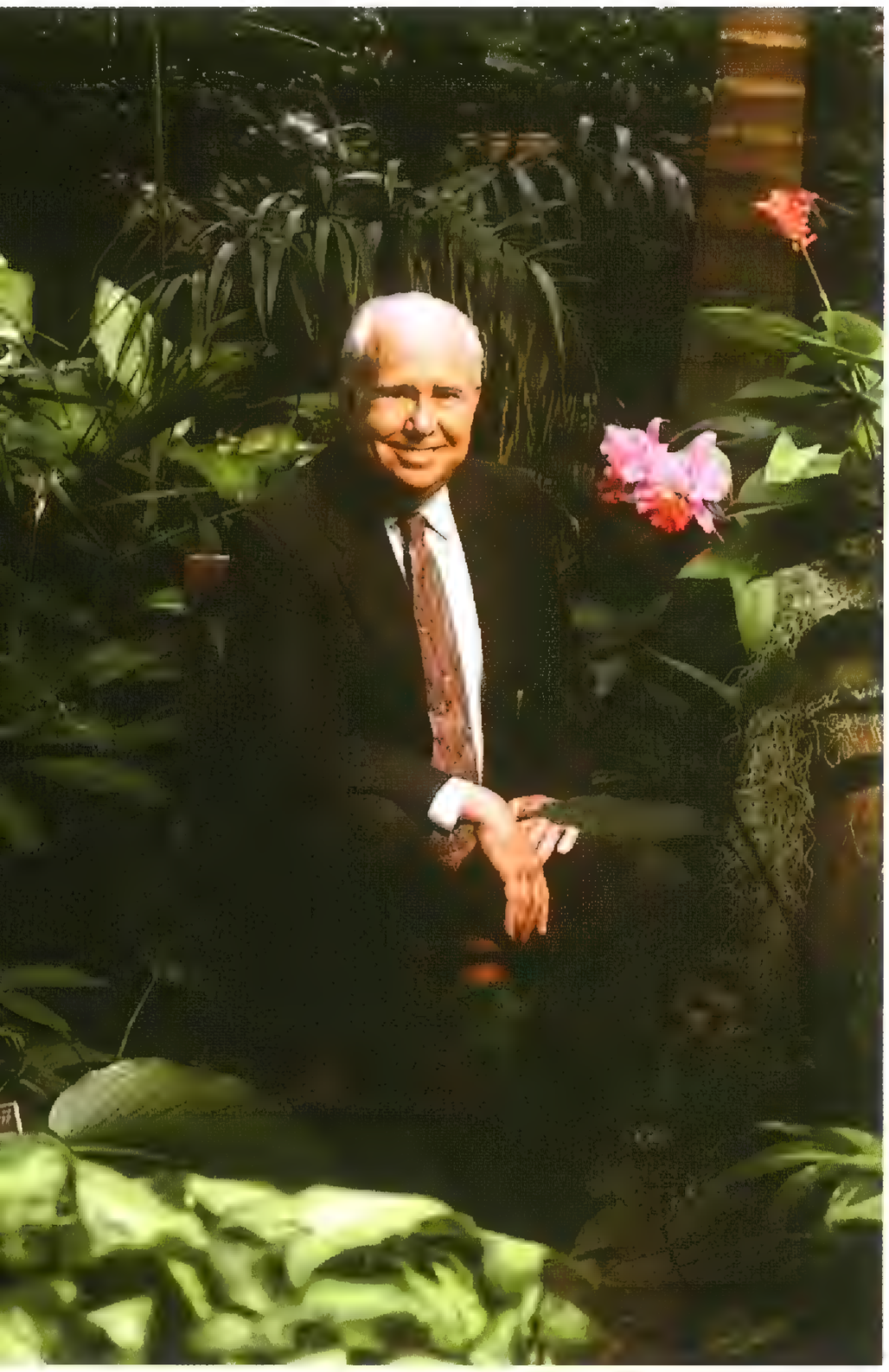

PHOTO BY PETER HOWARD

from the director...

The Garden safeguards a legacy for us all at the Shaw Nature Reserve, the 2,400 acres of beautiful countryside in the Ozark foothills near Gray Summit. The Reserve is a model for the restoration of natural communities and the conservation and promotion of native species. Since the completion of the Dana Brown Overnight Education Center last year, hundreds of youngsters from all parts of the St. Louis area have been able to spend a night without street lights, to hear the sounds of nature around them as never before.

The accomplishments of a small staff under the leadership of John Behrer are truly outstanding, but we need your help to do even better. The Reserve was founded in 1925 and many of its buildings date to that period. Through the Stewards of the Earth campaign, we are seeking funds to improve the aging facilities there. We are also seeking funds for the assembly building and one of the four lodges in the overnight education center. I invite you to bring your family and friends, and see how unique a treasure the Reserve is to our region.

Last issue, we announced that Scott Schnuck, president and COO of Schnuck Markets, had been elected president of the board of trustees. Stephen F. Brauer, former Ambassador to Belgium and president of Hunter Engineering, was elected first vice-president. New trustees Doug Albrecht, Cathy Berges, and S. Lee Kling are profiled on page 11.

On May 5, the Garden will award the Henry Shaw Medal, our highest honor, to the Duchess of Devonshire, whose estate of Chatsworth was an inspiration to Henry Shaw when he visited in the summer of 1851—an inspiration that ultimately led to the establishment of the Missouri Botanical Garden.

To discover and share knowledge
about plants and their environment,
in order to preserve and enrich life.

Missouri Botanical Garden

Peter H. Raven

Peter H. Raven, *Director*

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MISSOURI BOTANICAL
APR 2 9 2004
GARDEN LIBRARY

editor's note

Springtime can be so busy. If you have kids, spring is often a flurry of sports and schooling, with a brief pause for spring break. Gardeners happily attack their list of chores after the drudgery of winter, but the tasks are seemingly endless…digging, mulching, planting, fertilizing, mowing, pruning, staking, and on. There is so much to do at home, in the yard, at school, and at work. Nature seems to catch the buzz too. Animals flit and scurry, trees flower overnight, shrubs leaf out, bulbs blossom so suddenly that it looks like time-lapse photography, only in real time. With all the bustle, it becomes even more important to find opportunities for rest, relaxation, refreshment.

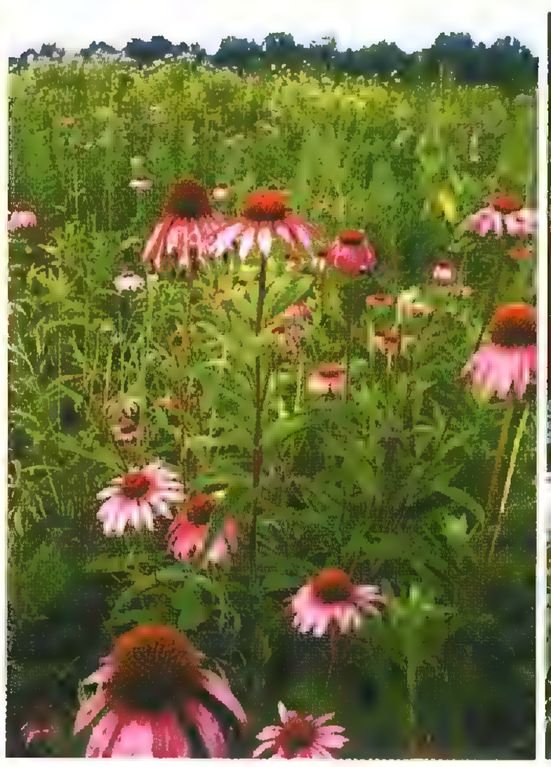
The Garden is spectacularly beautiful this time of year, with acres of inspiration for everyone. Get the inside scoop on the Garden's roses as the St. Louis Blooms series continues. Have lunch with friends at the café, then stroll over to assess your soil, lawn, flower, fruit, and vegetable options at the Kemper Center for Home Gardening. Wildflower fans can avoid the rush at the Shaw Nature Reserve's annual sale by attending the first-ever members' presale on Friday, May 7. Children will love the color and excitement of Chinese Culture Days May 15–16 and the new Butterfly House exhibit on bug evolution opening later in the month. Gear up for the Whitaker Music Festival with picnic accessories from the Garden Gate Shop during their annual spring sale May 19–23. Then relax and enjoy mellow jazz under the June moon. Come see what's growing on at the Garden today.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

Last year, the Missouri Botanical Garden announced a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. The campaign, which also targets support for the 79-acre St. Louis campus and the Shaw Nature Reserve in Gray Summit, already has raised in excess of $64 million and seeks an additional $7 million in private gifts by 2005. The funds will support Garden research, education, and the facilities required to enhance interpretation and display.



Public events, maple syrup making, prairie restoration, and family and school education are just some of the abundant activities at the Shaw Nature Reserve.

Shaw Nature Reserve

In 1925 the Garden purchased adjoining farms 35 miles west of the city to move its renowned collection of orchids safely away from the polluting coal smoke that blanketed St. Louis and was killing many of the plants on display in the Garden. The Garden's leaders believed they might be forced to relocate there entirely. Although improved air-pollution control in St. Louis removed the necessity of reestablishing the Garden at this country locality, the Reserve has established an important identity. Over the past 20 years, in particular, the Nature Reserve has distinguished itself for reestablishment of prairies and wetlands, for glade restoration, and for the elimination of invasive species from its natural habitats. The Reserve's restored wetlands, savannas, and open woodlands provide a natural laboratory for education programs, research, and horticultural display.

Recent improvements funded by the Stewards of the Earth campaign have allowed the Reserve to offer dramatically enhanced services to students and visiting groups. The new Dana Brown Overnight Education Center, a cluster of historic log-and timber lodges and assembly building, is now fully integrated with the Garden's education and technology programming. Over 12,657 students visited the Shaw Nature Reserve in 2003 to study science, ecology, and the natural world; 600 stayed overnight.

The Whitmire Wildflower Garden recently celebrated a decade of showcasing over 800 species of native plants, and the Reserve has partnered with the Missouri Department of Conservation to promote the Grow Native! Program. The bottomland forest of Shaw Nature Reserve was recently designated a Natural Area, the state equivalent of a federal Wilderness Area, by the Missouri Department of Conservation. The 126 acres spans the Meramec River and includes a "rare, regional representative" of original oak-dominated bottomland and a gravel bar outstanding for its rich fauna, which indicates excellent water quality.

The Shaw Nature Reserve has become a significant attraction in its own right, with annual visitation projected to grow steadily from its current level of over 50,000 per year. The Stewards of the Earth campaign seeks to improve and expand Shaw Nature Reserve's support facilities and educational programs to provide improved service to the community.

Environmental Support Complex Renovation

Current support facilities were built in 1927, when the major focus was growing orchids. The old and dilapidated greenhouses were dismantled in the 1980s, the coal boilers removed, and the remaining spaces were adapted with minimal improvements over the years. By modern standards the facilities are substandard and no longer serve the present day needs of the Reserve. The support complex provides facilities for the education, maintenance, horticulture, and ecological restoration departments of the Shaw Nature Reserve. This includes offices, work and preparation rooms, volunteer areas, restrooms, equipment storage and repair space, storage, lunchroom, and meeting space. In the current facilities many of these spaces don't exist and those that are available are inadequate.

The Education Building was constructed in 1930 to serve as work and office space for the orchid production effort, but today houses the Reserve's education staff offices, reference materials, education props and equipment, volunteer work and preparation space, and storage. To meet the needs of the expanding level of programs, classes, and a growing volunteer program, additional space is needed.

Although the dilapidated orchid houses had to be dismantled in the 1980s, the original greenhouse, which was also built in 1927, is still structurally sound, but in need of improvement. The proposal includes expanding the workspace, upgrading electrical service and wiring, and installing a new roof. Necessary updates will include potting benches; storage for pots, potting mixes, and tools; work areas, as well as an approved pesticide storage area, a utility sink, and eye wash station. One third of the building will be sectioned off to create a heated work area for processing seed and other activities carried out by staff members and volunteers.

The currently existing structures that house the Reserve's maintenance operations will be renovated and additional structures added to create a complex that provides the much-needed work areas for operations and maintenance activities. Additional metal sheds will provide covered storage for Reserve vehicles and equipment.

Environmental Support Complex artist's rendering

you can help!

PHOTO BY TRENT FOLTZ

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact her office at (314) 577-5120.

MAY

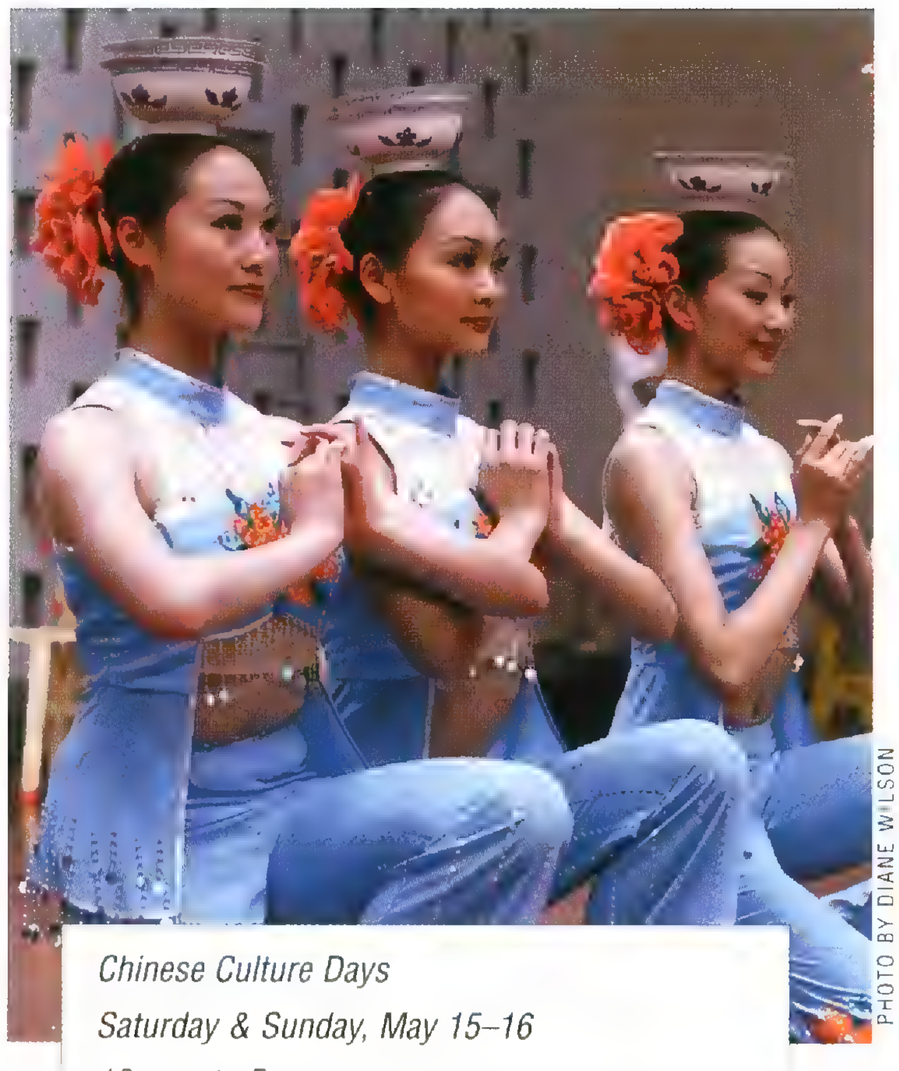


PHOTO BY DIANE WILSON

Chinese Culture Days
Saturday & Sunday, May 15–16
10 a.m. to 5 p.m.
$10 for adults ($7 seniors)
$3 for members and children age 12 and under

Chinese Culture Days

Daring acrobats, the Monkey King of Chinese folklore, and a 70-foot dancing dragon are among the many unique entertainments presented at Chinese Culture Days, May 15–16.

New in 2004, the Garden welcomes the Chushan Chinese Opera, who will demonstrate the ancient art of Chinese opera, with an action-adventure tale of the Monkey King. Also new, a theatrical production on the legend of Mulan, presented by the Chinese language schools.

This year's celebration features the return of the New Shanghai Circus, whose members entertain visitors with their gravity-defying feats of athleticism. Local T'ai Chi masters perform the art of mind-body meditation and self defense, while martial artists show their skills with swords, knives, sticks, and spears.

Calligraphers and traditional painters demonstrate their techniques. Enjoy a guided tour of the Margaret Grigg Nanjing Friendship Garden, especially lovely in springtime. Children can join in "Year of the Monkey" festivities and create fans, learn to use chopsticks, and more. Download the program of events from the Garden's website available May 8 at www.mobot.org.

Spring Luncheon and Fashion Show

Don't miss our annual Spring Luncheon and Fashion Show, sponsored by Dillard's. KMOV-News 4 anchor Vickie Newton hosts this year's fashion show "Ocean Breezes." Imagine a relaxing day of sun, sand, and fun with friends at the beach. See the latest in spring and summer fashions and enjoy a delightful luncheon and raffle, with attendance prizes for everyone. Tickets are $50 per person, and seating is limited. Please call (314) 577-9500 for reservations.

Thursday, May 13
11:45 a.m.
Ridgway Center

Rose Evening

At the Garden's legendary Rose Evening, members are invited to enjoy an evening stroll through the rose gardens and pick up rose-growing tips from Garden staff and members of the Rose Society of Greater St. Louis. There will be music, cash bar, attendance prizes, and everyone takes home a long-stemmed rose (while supplies last). A buffet dinner is available from the Garden Café for $24 per person. Reservations are required for the dinner, so please call (314) 577-5154 or visit the Garden's website for online booking by May 20.

Thursday, May 27
5:30 to 8:30 p.m.
Garden grounds

Musical Evening

If you love the Whitaker Music Festival but appreciate a more intimate gathering, Members' Musical Evening is just the thing for you. Bring a picnic supper, lawn chairs and blankets, and enjoy an evening of music under the stars…for members only. Dance the night away with the swinging Gateway City Big Band. Music begins at 7 p.m. on Spoehrer Plaza; limited concert seating is available on a first-come, first-served basis. Cash bar.

Friday, June 4
5:30 to 8:30 p.m.
Spoehrer Plaza

Don't Miss Out!

Get the pick of the litter at the first ever Shaw Nature Reserve Spring Wildflower members' presale. See page 13 for details!

JUNE

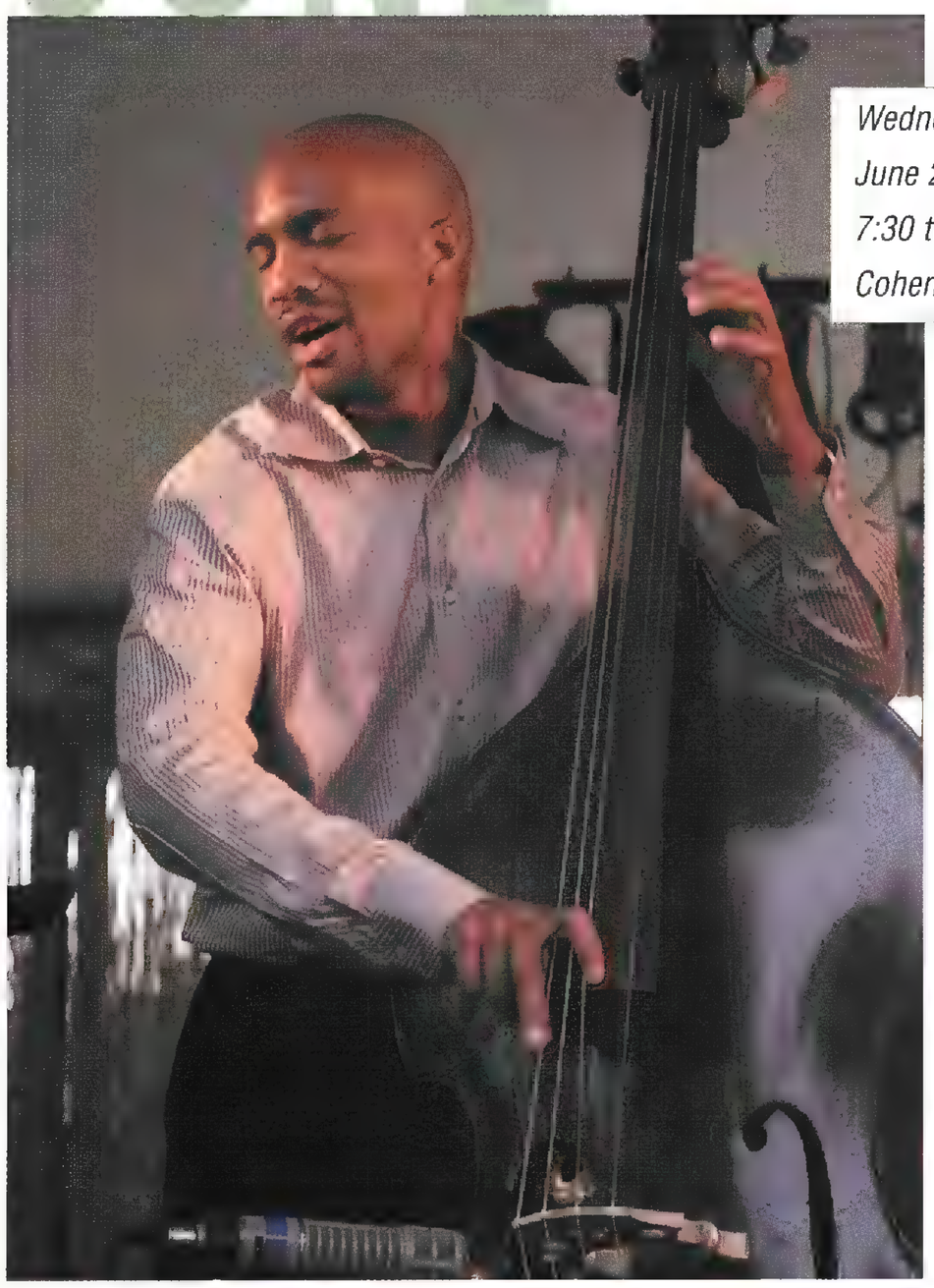


PHOTO BY DIANE WILSON

Wednesdays,
June 2 through August 25
7:30 to 9:30 p.m.
Cohen Amphitheater

Whitaker Music Festival

The Whitaker Music Festival turns ten this year, and to celebrate this decade of free music in the Garden, the festival expands yet again to include 13 shows! Every Wednesday night in June, July, and yes, August, the Whitaker Music Festival brings the best of free local jazz, blues, bluegrass, cajun, and more to thousands of visitors. So pack a picnic, gather up your friends, and spend a night listening to live music under the stars.

Admission to the Whitaker Music Festival is free, thanks to the generous support of the Whitaker Foundation, which supports the arts and parks in St. Louis to promote common heritage, while celebrating diversity and encouraging the vitality of the community.

In case of rain, check the Garden's website (www.mobot.org) for cancellation information or tune into 106.5 Smooth Jazz for announcements.

June

2 River City Ramblers, Dixieland jazz at its best

9 James Matthews Trio, virtuoso jazz piano stylist

16 Erin Bode, young jazz vocalist sensation

23 Todd Mosby Group, progressive jazz guitarist

30 Quartet Tres Bien, legendary St. Louis classic jazz quartet

July

7 Johnnie Johnson, Johnnie B. Goode's 80th birthday bash!

14 The Bel Airs, the kings of rhythm & blues

21 Gumbohead, Cajun music of New Orleans and the bayou

28 Lonesome Pines, Missouri Bluegrass and more

August

4 Wil Maring and Shady Mix, unique blend of folk, country, and bluegrass

11 Fanfare, one of St. Louis's top club bands

18 Mitzi MacDonald and Keltic Reign, Irish folk music

25 The Poor People of Paris, the sensual vocal stylings of Elsie Parker

NEW: Gourmet in the Garden

These two special evenings will feature the best of local produce and ingredients in a spectacular summertime setting—the Garden at twilight. Enjoy cocktails in the Kemper Center gardens and an optional walking tour, then follow with dinner in the Spink Pavilion. Drs. Peter and Patricia Raven will attend the July 20 date. Reservations are $85 per person, and seating is limited, so please book early by calling (314) 577-9500.

Menu—Goat cheese with crabmeat cheesecake on a bed of vegetable slaw. Followed by whole roasted Missouri bison strip loin with a pepper-bourbon mustard and broiled Missouri trout with a lemon dill crème fraîche, Vidalia rings stuffed with a red potato hash, and flash fried collard greens. For dessert: white and dark chocolate bread pudding with strawberry ice cream.

Tuesdays, July 6 and July 20
6 p.m. cocktails, 7 p.m. dinner
Kemper Center, Spink Pavilion

ST. LOUIS BLOOMS!

The Garden returns to its "roots" this year, celebrating the changing seasons of St. Louis's best horticultural display. From the first bursts of bulb-beautiful spring, to the long-running rainbow of roses starting in May, water lilies in late summer, and chrysanthemums and leaf color in fall, the Garden is where St. Louis really blooms!

Coming up Roses
Saturday–Sunday, June 5–6
tours at 10 a.m., noon, and 2 p.m.
educational activities for kids
10 a.m. to 3 p.m.

COMING UP ROSES

PHOTO BY TIM PARKER

COMING UP ROSES 2004

In May, we welcome that bodacious long-lived bloomer, the rose, who returns to the Garden's palette in late spring. With a growing season lasting sometimes through November, roses offer plentiful opportunity for enjoyment. But perhaps at no time of the year are they so very fresh, beautiful, and seasonally appropriate as June. Roses are, after all, the birth flower for the month, and what June bride doesn't love roses?

On Saturday and Sunday, June 5 and 6, the Garden kicks off "Coming Up Roses" month with special interpretive tours of the rose gardens by the Garden's master rosarian **Diane Brueckman**, interviewed below. Kids will delight in educational activities designed to foster little green thumbs. Don't miss the roses' gorgeous debut this June.

What will visitors to the Anne L. Lehmann and Gladney rose gardens see this year?

"Since the Lehmann Garden holds 1,500 plants, and the Gladney 1,400, the easiest answer is 'quite a lot!'" laughs Diane. "Visitors will be able to see the versatility of the roses and different ways that they can use them in their own landscapes. We have about 240 new roses coming in, 80 of which are the All-America Rose Selection (AARS) winners for 2005. We receive them a year before they are available to the public. In addition, there will be 47 unnamed cultivars coming into the test garden in Lehmann. Two are test climbers for the fence in Gladney. Don't miss the new hybrid in Gladney, an *R. rugosa* groundcover from the Pavement Series, bred in Germany and introduced by Bailey's Nursery."

What's "hot" in roses for 2004?

"The push is for low maintenance and fragrance as well as beauty of form and color. 'Knock Out,' a cherry red/pink leads the list. Expect 'Blushing Knock Out' and 'Pink Knock Out' to be big hits. Thanks to the Botany Shop in Joplin, who donated ours this year. The new AARS winners are all very healthy, vigorous roses. 'Memorial Day' from Weeks Roses is especially strong and vigorous with excellent disease resistance. The blooms are large, fragrant, and a beautiful orchid pink. 'Day Breaker' is a prolific bloomer, 'Honey Perfume' is fragrant, both are disease resistant."

"All the hybridizers are following the English grower David Austin's lead for more old fashioned looking roses and in fact they all have a series of roses that reflects the trend to larger, more relaxed growth habits and big blousy blooms often with medium-to-strong fragrance. One such rose that is rising in popularity is 'Peter Mayle,' named for the author of *A Year in Provence*. It reflects all of the best in modern roses: strong grower, large full deep pink blooms with remarkable fragrance. We have it in Gladney."

In 2002, the Garden had to remove 1,000 plants to avoid rose rosette disease (RRD). What's the status in 2004?

"We continue to follow a strict regime of removal of infected plants and a spray program to target the mite that carries the virus. This year, we'll alternate organic and chemical sprays to prevent a buildup of resistance in the mite. The year prior, we had to replace the entire upper terrace in Lehmann. Last year, the climbers in Gladney were hit. One that we will all miss is 'Dublin Bay' the beautiful rose that grew on the pillars in the Gladney circle. David Austin Ltd. is donating several roses that we will use as climbers in Gladney and as shrubs in the shrub border in Lehmann. Several of the other beds will be filled with donations by Star Roses, Weeks Roses, Bailey's Nursery, and David Austin Ltd."

Thanks

"I cannot say enough about the help my volunteers give me! The rose gardens have almost no shade, so these eight dedicated volunteers toil in the hot sun several days a week from spring through fall. Without them, we would not have the beautifully maintained garden our visitors enjoy. Thank you, volunteers!"

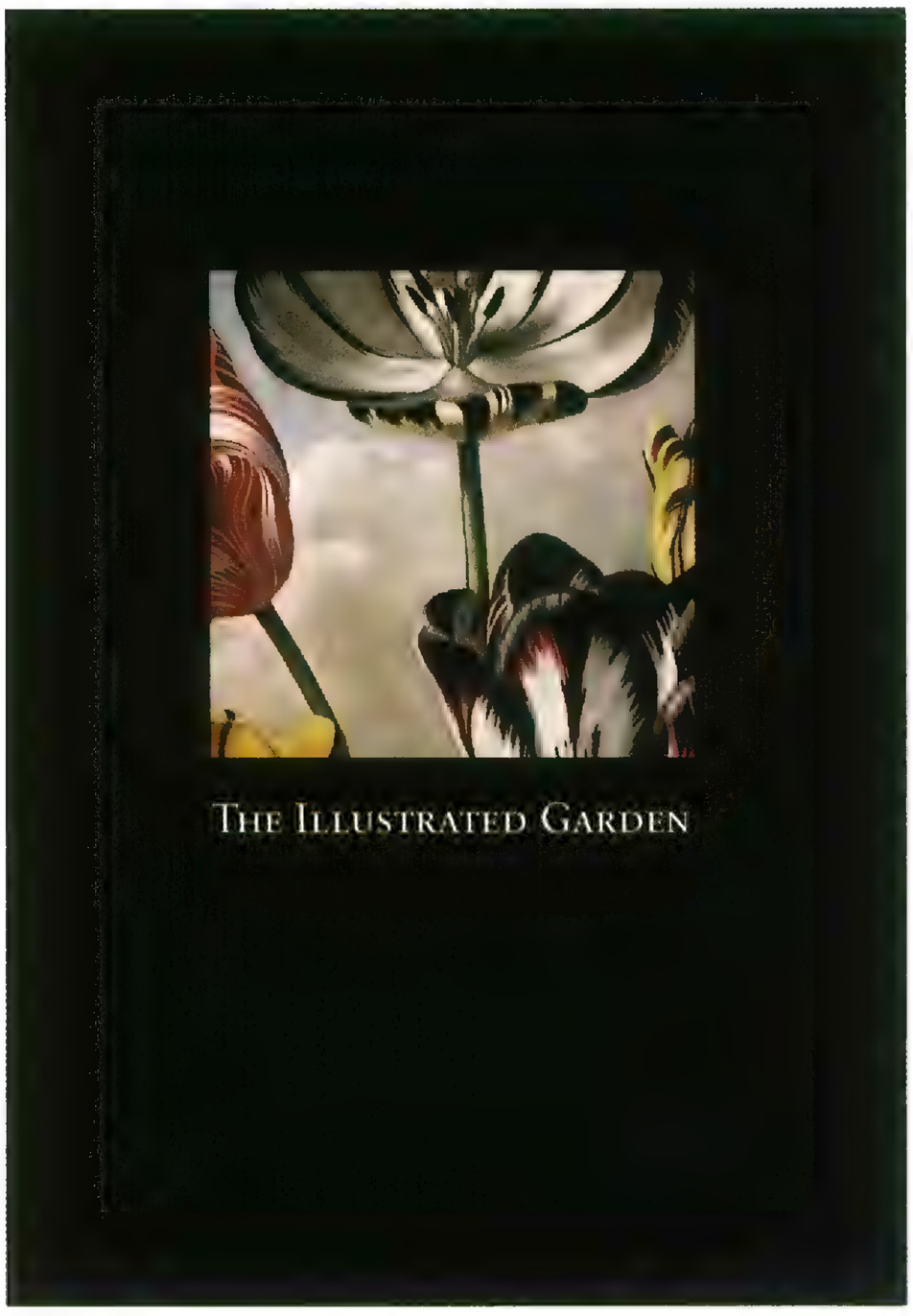
With Roses and Englishmen

Henry Shaw left his native England to seek his fortune in St. Louis, but when he settled down years later to found his botanical garden, one of his first tasks was to pen a slender volume on the emblem of his native land, *The Rose*.

"Human art can neither colour nor describe so fair a flower," Shaw writes, having just installed his first rose garden, "[Its] beauty is composed of all that is exquisite and graceful."

Today, Shaw's Garden boasts almost 3,000 roses, many of which are genuine English roses. In honor of our many English connections, VisitBritain is sponsoring St. Louis Blooms "Coming Up Roses." The year 2004 is the "Year of the Garden" in Britain, marking the 200th anniversary of the Royal Horticultural Society with a year of special events and activities. VisitBritain has produced a free 48-page guide to the great gardens of the British Isles and is also making an exclusive offer to members of the Missouri Botanical Garden: the chance to win a fantastic 6-night vacation for two and experience Britain's gardens firsthand. For more information, and to order your free guide, simply go to www.visitbritain.com/mo.

NEWS



The Illustrated Garden is a Hit

The new exhibition debuted at the Saint Louis Art Museum on April 16 to rave reviews. "Beautiful...it will change the way you view botanical prints," writes Dorothy Weiner of the *Ladue News*, "and the flora that inspired them." *The Illustrated Garden* explores the artistic and scientific importance of botanical books with a selection of 100 beautiful and finely detailed color illustrations from the Garden's renowned rare book collection. Running through Sunday, August 22, the exhibition is the culmination of a four-year collaboration between the Garden and the Art Museum.

Available now at the Garden Gate Shop:

- *The Illustrated Garden catalog.* A 64-page book in gorgeous full color capturing many of the best works from the exhibition.
- *The Illustrated Garden tee-shirt.* Beefy all-cotton tee-shirt with signature image of tulips from the Temple of Flora by Robert Thornton.
- *The Illustrated Garden tote bag.* Sturdy 100% cotton twill tote with signature image of tulips from the Temple of Flora by Robert Thornton.
- *The Illustrated Garden mug.* Tall and elegant with signature image of tulips from the Temple of Flora by Robert Thornton.

Visit the exhibit website—www.illustratedgarden.org—for your choice of eight unique images on mousepads, notecards, and posters.

Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the greater St. Louis region. Become a Corporate Partner today! For information, call Regina Faden at (314) 577-9513.

Shareholder Level
($10,000 to $24,999)
CBIZ Business Solutions
of St. Louis, Inc

Supporter Level
($1,000 to $4,999)
The Fabick Companies
Hager Companies
General Motors Corporation
Sansone Group
Tyco Healthcare/Mallinckrodt

PHOTO BY DIANE WILSON

Mark Westfall, Dr. Peter H. Raven, Laurie Westfall, Scott Schnuck, and Tom Rea

Westfall Honored

Last November, the Garden's board of trustees expressed their deepest appreciation by honoring former St. Louis County Executive George R. "Buzz" Westfall, who passed away in October. The resolution was presented to his widow Laurie Westfall and their son Mark in March 2004. Westfall served as ex-officio member of the board since 1990 and worked tirelessly with community and business leaders during the founding and later merging of the Butterfly House in Faust Park with the Missouri Botanical Garden.

PHOTO BY MARY BUTKUS

Dr. Luther Williams, receiving the Trustees' Award from Dr. Gerry Schwartz.

Results Get Result

On Thursday, April 1, Dr. Luther Williams, the William T. Kemper Director of Education and Interpretation, was presented the 2004 Trustees' Award by the Academy of Science of St. Louis. Dr. Williams received the award for his "renowned leadership of national reforms of science education." Responsible for a complete refocus of the Garden's education programs to provide a seamless web of math and science curriculum and teaching methods from pre-school through grade 12, Williams launched the Garden's Education Compact in 2002.

PHOTO BY DIANE WILSON

Dr. Peter H. Raven, Jack E. Thomas Jr., and Scott C. Schnuck

PHOTO BY DIANE WILSON

Guests mingle on Spoehrer Plaza at the 2003 Henry Shaw Dinner.

Unveiling of Catalpa Leaves at Lewis and Clark Community College.

2004 Henry Shaw Medal

On Wednesday, February 18, Jack E. Thomas, Jr. became the 58th recipient of the Garden's highest honor, the Henry Shaw Medal. Thomas served as president of the board of trustees from June 2001 until early 2004. Some highlights of his tenure include the exhibit of Chapungu sculpture; the Butterfly House merger; the opening of the Dana Brown Overnight Education Center; a visit from HRH Prince Andrew Duke of York; and the launch of the Stewards of the Earth capital campaign. Awarded since 1893, the Henry Shaw Medal honors those who have made a significant contribution to the Garden, botanical research, horticulture, conservation, or the museum community.

It Happens But Once a Year

On Wednesday, May 5, the Garden fills with music, fun, and socializing. For one very special night, the Garden's upper level members (Henry Shaw Associates and above) come together to enjoy fine food and wine and socialize at the annual Henry Shaw Dinner. This year's highlight is the presentation of the Henry Shaw Medal to Her Grace the Duchess of Devonshire. Deborah Mitford Cavendish, the eleventh Duchess of Devonshire, is doyenne of one of England's finest stately homes, Chatsworth, the inspiration for Henry Shaw's Missouri Botanical Garden. It's not too late to attend. Join the Henry Shaw Associates today by calling (314) 577-0874.

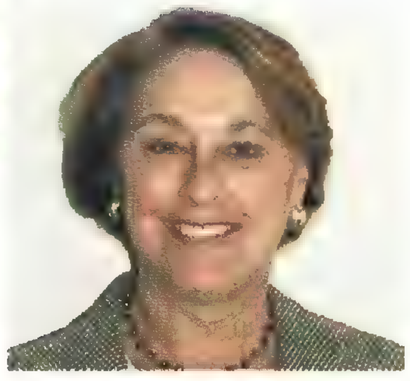
Shaw's Garden East Painting

In 2002, Lewis and Clark Community College established an on-campus garden as part of the Shaw's Garden East initiative. This year, artist Winifred Godfrey was commissioned to create a signature botanical painting for the campus. With background information provided by the Garden's research division, Godfrey created *Catalpa Leaves*. Pictured at the recent unveiling are: professor Jim Price; landscape architects Geoff Rausch and Cindy Tyler; artist Winifred Godfrey; Dr. Dale Chapman, President, Lewis & Clark Community College; Dr. Richard Keating, member of Shaw's Garden East advisory council; Lynn Kerkemeyer, the Garden's East Side Marketing Officer.

NEW TRUSTEES

On Wednesday, February 18, the Garden's board of trustees welcomed three new members.

Douglas A. Albrecht



Catherine B. Berges

S. Lee Kling

Douglas A. Albrecht is president and CEO of Centric Group, and former president of Enterprise Capital Group and corporate vice-president of Enterprise Rent-A-Car. Doug serves on the board at the Crawford Group, Commerce Bank, St. Louis Children's Hospital Foundation, St. Louis Sports Commission, and the Regional Business Council. Doug and his wife, Ann, are supporters of the Garden.

Catherine B. Berges is a distinguished civic volunteer. Instrumental in organizing and managing many high-profile fundraising events around St. Louis, she has been an invaluable volunteer at the Butterfly House and chaired the highly successful 2002 Wing Ding. She and her husband, James, president of Emerson, joined the Garden in 1989.

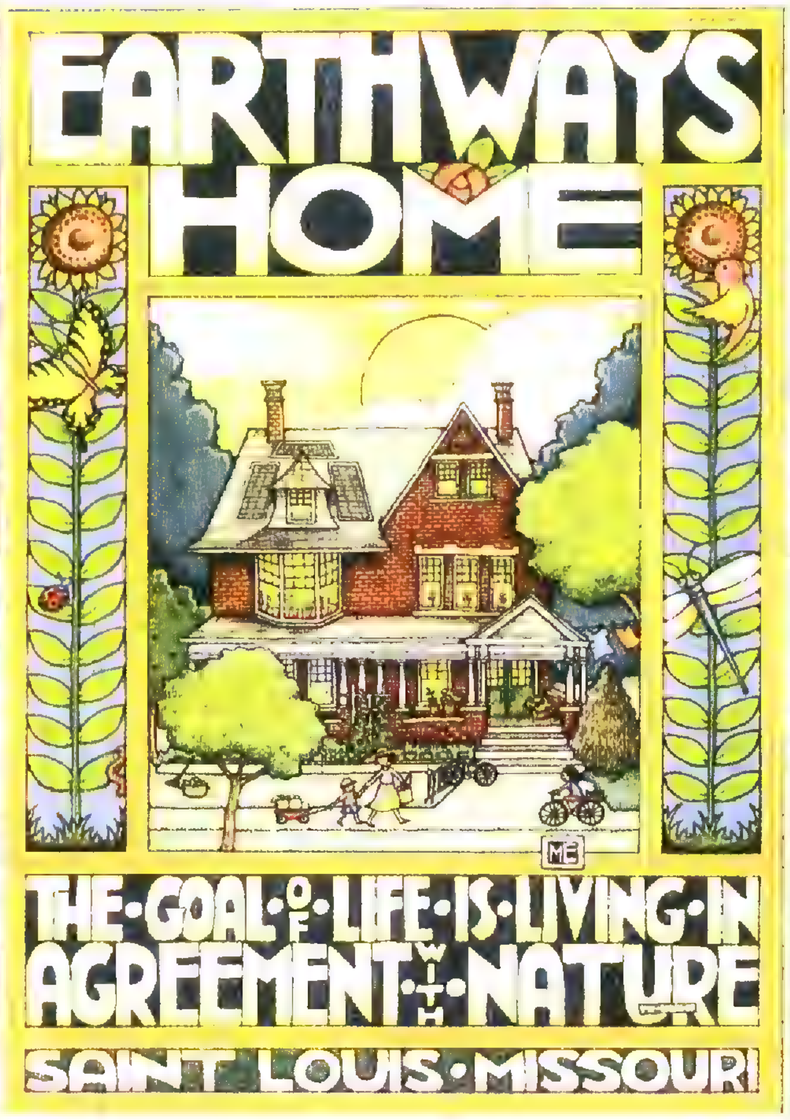
S. Lee Kling is chairman of the board of the Kling Company. Former chairman of Landmark Bancshares and of the Missouri Department of Transportation board, Lee serves on the board at Engineered Support Systems, Electro Rent Corporation, National Beverage Corporation, and Falcon Products. Lee and his wife, Rosie, have been ardent supporters of the Garden since 1977.

2003 Annual Report

The Missouri Botanical Garden 2003 Annual Report, *Growing Our Future*, is now available. To request a copy, call (314) 577-5120.

GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.



PHOTOS BY DALE DUFER

St. Louis' world-famous artist Mary Engelbreit was still just a hometown girl when she created this poster to benefit the newly opened EarthWays Home in 1994.

The principle of "sustainability"—meeting current needs without compromising resources for the future—continues to guide outreach efforts at the EarthWays Home.

EARTHWAYS HOME

Throughout 2004, the Garden is celebrating the EarthWays Home's tenth anniversary with periodic special events, physical improvements, and extensive community outreach. There is much to applaud and ample reason to revisit the early goals and visions from the perspective of ten years.

At a dedication ceremony on June 4, 1994, founders thanked dozens of contributors to the landmark environmental project and opened the building to educate the public. The EarthWays Home founding developed out of the belief that recycling an abandoned, once-elegant city dwelling into a model of resource-saving potentials would bring a conservation message home for visitors of every age, income, and interest level. Informed consumers would then reexamine their own actions, as well as those of government and business, and make choices that prevent pollution and protect the environment. At the heart of these goals was a concept new to popular thinking: sustainability.

The Garden's Gateway Center for Resource Efficiency carries on this dedicated work today, educating homeowners, business leaders, local government decision-makers, and school children about the benefits of "going green." These diverse audiences meet at the EarthWays Home, where lively conversation leads to problem-solving changes in how individuals regard their environment.

To celebrate this history, the staff of the EarthWays Home invites you to the first of several "Evenings at EarthWays" on Thursday, June 17. The founders of the Home will be guests of honor and light refreshments will be served. We hope you'll plan to return throughout the year to continue the conversation.

More Opportunities

Celebrate sustainability at all of these festive events. For more details call (314) 577-0220 or visit www.earthwayshome.org.

Fri. & Sat., May 21 & 22.
Open house tours at the EarthWays Home.

Thurs., Jun. 17. Evening at EarthWays Home "A Ten-Year History" with founders and current supporters. Reservations required, please call (314) 577-0220.

Fri. & Sat., Jun. 18 & 19.
Open house tours at the EarthWays Home.

Fri.-Sun., July 16–18. Renewable energy open house weekend, with tours and displays on renewable energy applications for homeowners and renewable energy legislation and opportunities in Missouri and Illinois.

PHOTO BY LYDIA TOTH

Bluebird Lady Claire Meyner (center) with her fellow volunteers Cynthia Marion (left) and Cindy Cross (right)

At the Bascom House

Don't miss the works of artist John Odell, "On the Wild Side: Paintings from the Heart of the Shaw Nature Reserve," an exhibition in the Bascom House opening May 24 through July 9. Several of his works will also be on display in the Ridgway Center at the Garden during this time.

Wilderness Wagon

Rest those little feet: don't forget that the Wilderness Wagon offers narrated tours of the Reserve, following the 3-mile Loop Road with stops at the Trail House and Wetland. Wagons run on weekends from May 1 through June 28 and depart the Visitor Center at noon, 1, 2, and 3 p.m.

SHAW NATURE RESERVE

The Bluebird Lady

Claire Meyners is a little bit tired. She has just returned from a "vacation" to Costa Rica that included round-the-clock monitoring of the endangered Pacific leatherback turtle. "The turtles beach between midnight and 4 a.m. It was a fascinating project, but I'm glad to get back to the birds," she confides. The birds are the Shaw Nature Reserve's burgeoning population of bluebirds.

"When I asked Claire Meyners if she would be willing to monitor the bluebird boxes, I had no idea of her qualification," laughs Nature Reserve staffer Helen McCallie. Turns out that Claire has a doctorate in engineering and policy, a proclivity for statistics, and connections to Cornell University's famed Ornithological Laboratory. She enrolled the Reserve in a study Cornell was conducting on "cavity nesters" such as bluebirds.

For six months each year, Claire and her crew of recruited volunteers have braved hail, rain, 102° temperatures, poison ivy, ticks, and chiggers to monitor the Reserve's 80-plus boxes for bluebird nesting. Since the initiation of the project in 1998, bluebird numbers have increased dramatically. Claire attributes much of the increase to improved predator guards. Her team has experimented with sheaths, cones, baffles, poles and waxes to keep out the raccoons and black snakes. "When we started, there was a 70% predation–30% success rate of nesting. Now those numbers are reversed," says Claire proudly.

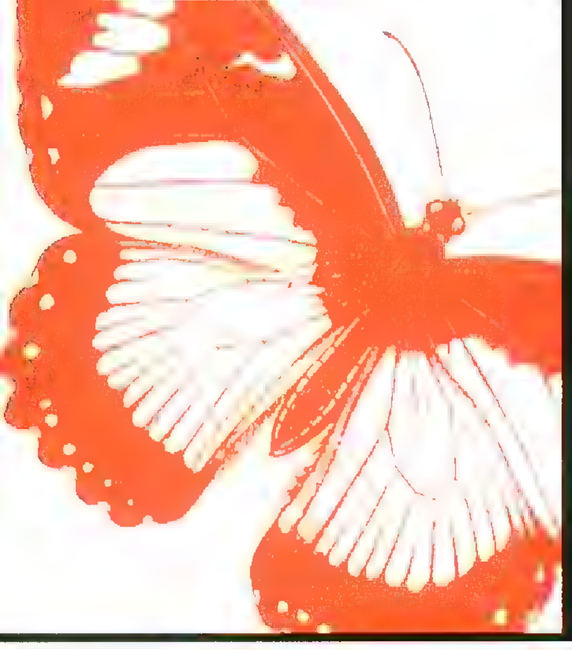
"Claire's volunteer commitment is outstanding," says John Behrer, director of the Shaw Nature Reserve. "Our many visitors who enjoy the now-frequent sightings of bluebirds all over the Reserve and all of us owe her and her team a debt of gratitude."

There's a place for your talents at the Garden's family of attractions. A wide range of volunteer opportunities is available. For information, call Jackie Juras at (314) 577-5187.

PHOTO BY SCOTT WOODBURY

Spring Wildflower Sale

Saturday, May 8. 9 a.m. to 4 p.m. Choose from the widest selection of native plants available in the St. Louis region at Shaw Nature Reserve's annual Spring Wildflower Sale. The Reserve and several nurseries from throughout the area will offer hundreds of varieties of wildflowers, ferns, trees and shrubs to use in home landscaping and to attract wildlife. The sale will feature the showiest and hardiest native plants for sun or shade, including butterfly milkweed, rose turtlehead, pale purple coneflower, dwarf crested iris, cardinal flower, compass plant, wild phlox, maidenhair fern, fringetree, oaks, and beautyberry. Don't miss the presale **for members only** on Friday, May 7, from 4 to 7:30 p.m. Call (636) 451-3512 for more information.



The Butterfly Pages

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

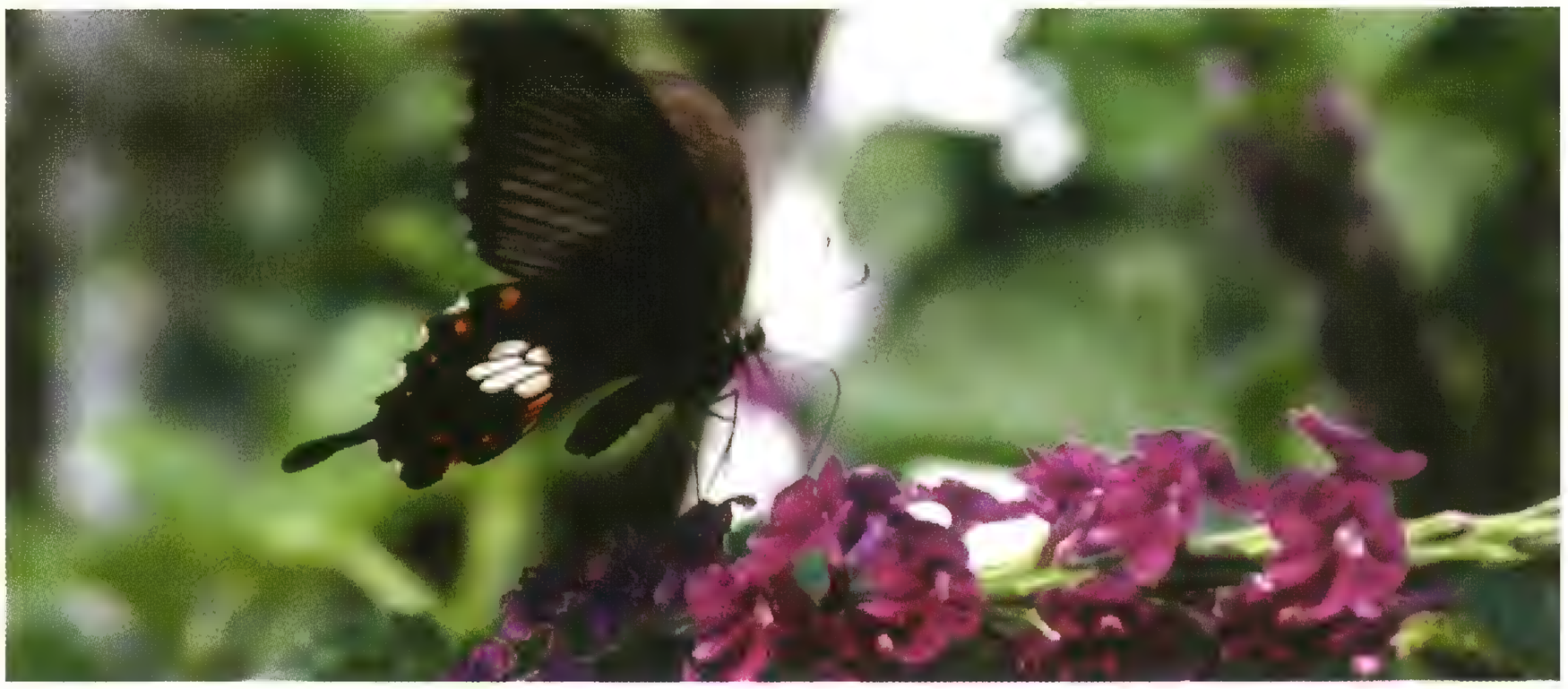


PHOTO BY MARK DEERING

Pailio polytes, *the Common Mormon butterfly*

Exhibits

Back to the Future

On Tuesday, May 25, the new "Blast from the Past" exhibit opens at the Sophia M. Sachs Butterfly House & Education Center for the summer, tracing the evolution of arthropods through the ages. Included will be fabulous fossils, such as *Protolindenia wittei*, a Jurassic-period dragonfly found in Germany. Other insects are seen trapped in amber—or petrified tree sap. Kids can go on a fossil dig and build their own bug at the bug bar as part of the exhibit.

The largest phylum in the animal kingdom, and found in almost all habitats, arthropods have no bones. Instead they have a jointed exoskeleton. Roaches, scorpions, and millipedes are just a few that have existed since prehistoric times. Check out these fascinating facts about ancient arthropods:

- The earliest insect found as a fossil is believed to be a winged insect approximately 434 million years old, many millions of years before flight was ever thought possible.
- From fossil evidence, we know that the first moth is approximately 180 million years old and the first undisputable butterfly is about 65 million years old.
- The largest, heaviest arthropod that ever existed was the Sea Scorpion, which swam in shallow lagoons about 400 million years ago. At least one specimen reached nine feet in length!
- The largest dragonfly that ever flew had a wingspan of over two-and-a-half feet!

PHOTO BY MARK DEERING

Continuing: Bugs Galore

Don't miss the last days of the yuck-tastic "Shudder Bugs!" Running until Sunday, May 23, Shudder Bugs will introduce you to a few hundred of your closest, grossest bug friends, from maggots to giant cockroaches to leeches. Additional exhibits on medical, veterinary, and forensic entomology will introduce you to the science of using buggy clues to solve health mysteries.

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

Events

Mother's Day Brunch

Sunday, May 9, 11:30 a.m. to 2 p.m. Treat mom to a delicious brunch on the Emerson Lakeside Terrace overlooking the beautiful Native Butterfly Habitat. The cost is $26.95 per adult, $13.95 per child (ages 4–11; children 3 and under are free). Reservations are required and include admission to the conservatory and exhibit hall. This is one of our most popular events, so please book early by calling (636) 733-2339.

Field Day with Dad

Sunday, June 20, 11 a.m. to 5 p.m. Have a field day this Father's Day! Test your aim with a giant slingshot. Hurl a football between the goal posts. Use teamwork to maneuver Trekker skis. Hop till you drop in a potato sack race. Hit the mitt in a baseball throw. And back by popular demand, get creamed with a platter full of whipped cream! Crafts and prizes for all included with admission. For more information, call (636) 530-0076.

Wing Ding 2004

Saturday, October 9. Save the date for Wing Ding 2004. We hope you'll plan to join us for a delightful evening of fine food, great company, and dancing at the Butterfly House. The event will be chaired by Cathy Berges, with co-chairs Julie and Scott Schnuck and Marsha and William Rusnack. More details to follow.

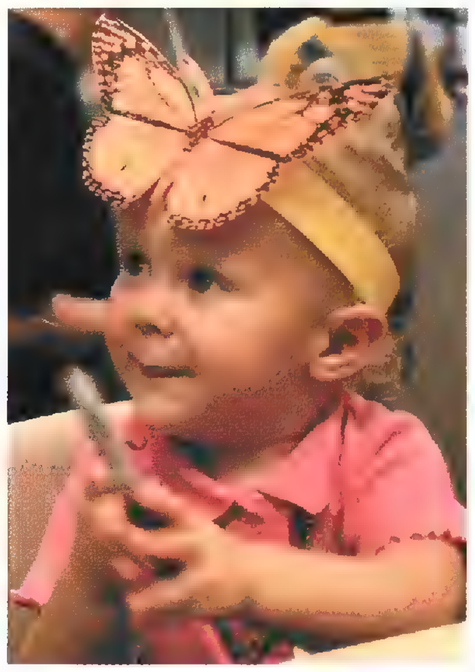


PHOTO BY DIANE WILSON

"Be a Butterfly" class

Classes

Sat., May 22

"Be A Butterfly," a one-hour class for four-and five-year-olds and their family members. Five species of native Missouri butterflies and moths are featured as children dress up and search for plants on which to "lay an egg" and "sip nectar." 10 a.m. $10 ($8 for members) payable at the door on day of class only. For information call (636) 530-0076, extension 13.

Sat., Jun. 12

Attention: lepidopterists-in-training! Learn how to pin and mount butterfly specimens like a professional in order to start your own collection today. Designed for children ages 8 and up, accompanied by an adult. 2 p.m. $10. This class is limited to 15 participants only, so please reserve your spot by calling (636) 530-0076, extension 13.

Tributes

January–March 2004

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5154.

in honor of

Marian & Harold Barr
Nancy Sachs

Mickie and Bernie Izsak
Julie and Shirley Snitzer

Betty Manlin
Irene Goldman
Helen Henschel
Jean Racowsky
Nancy Sachs
Kristie Skor

Evelyn Newman
Jules and Shirley Snitzer

Dee Seline
Jean Racowsky

dear daughter, Debbie
Jules and Shirley Snitzer

Alice Rose Evans
Mike and Chris Van Horn

Betsy Green
The Greenstein Family

Dr. Myron Goldberg
Jules and Shirley Snitzer

Thomas Moore
Helen VanDerhyden

David Moulton
Jules and Shirley Snitzer

Casper and Thelma Seline
Jean Racowsky
Jules and Shirley Snitzer

Jack Zuckert
Jules and Shirley Snitzer

in memory of

Deliema Benning
Larry and Judy Gunderson

John Calcaterra
Jules and Shirley Snitzer

Pavers

January–March 2004

For information on honoring a loved one with a paver, please call the Development Office at (314) 577-5154.

James Russo In Loving Memory
Suzy Adams

Michael Craig Buescher
Charles A. Buescher, Jr.

Happy 50th!! Michael Lovellette
Christine Faveere

Isabella Forever in our Hearts
Corporate Benefit Consultants

Forget-Me-Not Garden Club
Forget-Me-Not Garden Club

In Memory of Cory Magner 1959 to 1998
Arnold & Pat Haumesser

Soo Kwock Go (Simon) 2003
Elaine Jew

In Memory of Angela Wendell
Missy Kent

In Memory of Casey Galasso
Bill Kortkamp

In Memory of My Daughter Akiko Kuno
Tsuneko Kuno

We Love You Jack Lyday Poppa
Nelda Lyday

Syd Glafry Ath Fern Sin Deanie Hall
Nelda Lyday

Paul Marynowych
Paul Marynowych

Al & Vera Mueller 2003
Dianne Mueller

Mom and Pop Groth Were Might Fine!
Mary O'Neill

Grammer and Dadder– In Our Hearts
Mary O'Neill

Janet Hester Payne 3-4-39 to 8-4-03 (64)
Allen Payne

We Miss You Grampa Pic We Love You
Annette Pic

Baby Perez Always in Our Hearts
Tracy Pilarski

Marie—Ben Bernice Schauman
Mrs. Audrey Ruff

Gerry Schiller
Nancy Sachs

Betty Kraner
Nancy Sachs

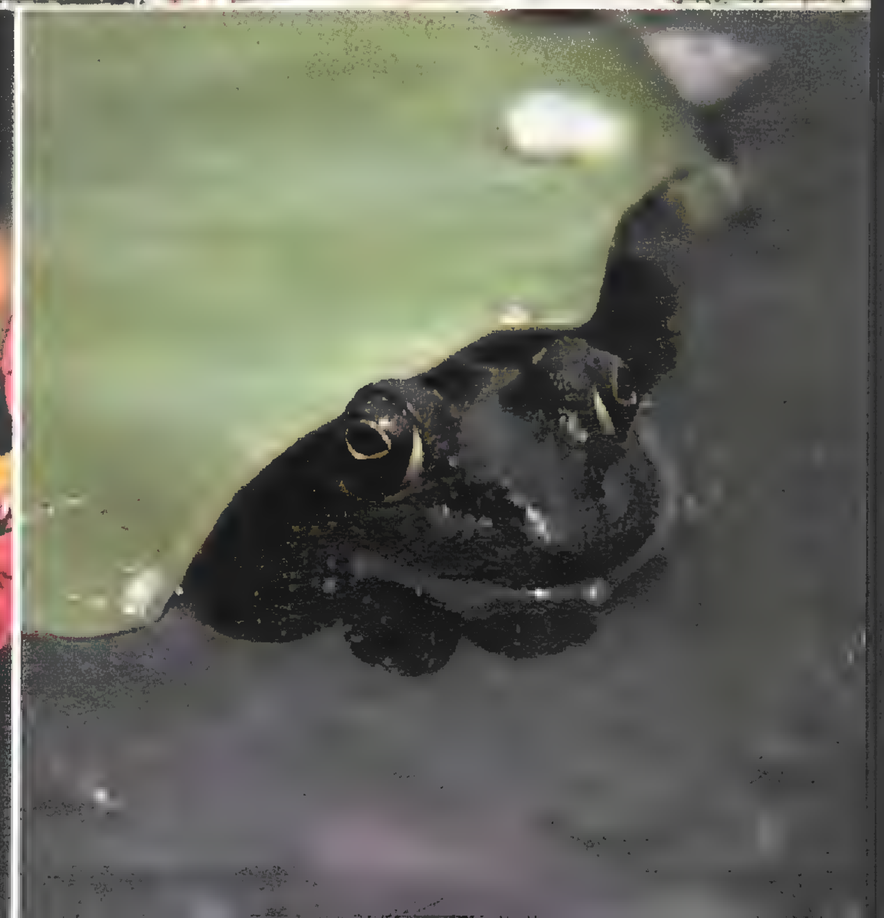
Abby–You are My Butterfly
Judith A. Scott

In Memory of Dylan Henderson
Mary Simpson

Zvolanek's of Des Peres & Prague, CR
Budimir Zvolanek

SUMMER FUN AT THE GARDEN

HONEYBEES



FROM THE KEMPER CENTER FOR HOME GARDENING...

What to Do in the Garden this Month

May (all month)

Ornamentals: Pinch azaleas and rhododendron blossoms as they fade, and fertilize with an acid formulation. If spring rains have been sparse, begin irrigating, especially plants growing in full sun. Apples, crabapples, and hawthorns susceptible to rust disease should have protective fungicidal sprays applied beginning when these trees bloom.

Vegetables: Slugs will hide during the daytime beneath a board placed over damp ground. Check each morning and destroy any slugs that have gathered on the underside of the board. Growing lettuce under screening materials will slow bolting and extend harvests into hot weather. Place cutworm collars (easily made from cardboard strips) around young transplants.

Fruits: Mulch blueberries with pine needles or sawdust.

Turfgrass: Keep bluegrass cut at 1.5 to 2.5-inch height. Mow tall fescues at 2 to 3.5-inch height.

Week 1

Ornamentals: Begin planting gladiolus bulbs as the ground warms. Plant hardy water lilies in tubs or garden pools. Continue monitoring pines for sawfly activity on new shoots. Don't remove spring bulb foliage or next year's flower production will decline.

Vegetables: Set out and stake tomato plants as soils warm. Begin planting sweet corn as soon as white oak leaves are as big as squirrel ears (isolate varieties to prevent crossing). Keep asparagus harvested for continued spear production (control beetles as needed). Thin plantings of carrots and beets to avoid overcrowding. Control caterpillars on broccoli and cabbage plants by handpicking or use biological sprays such as B.T.

Fruits: Don't spray any fruits while in bloom.

Week 2

Ornamentals: Begin planting warm-season annuals. Plant summer bulbs such as caladiums, dahlias, cannas, elephant ears.

Vegetables: Place a stake by seeds of squash and cucumbers when planting in hills to locate the root for watering later. Watch for striped and spotted cucumber beetles now. Both may spread wilt and mosaic diseases to squash and cucumber plants. Plant dill to use when making pickles.

Turfgrass: Mow zoysia lawns at 1.5-inch height. Remove no more than one-half inch at each mowing. Apply post-emergence broadleaf weed controls now if needed.

Week 3

Ornamentals: Scale crawlers are active now. Infested pines and euonymus should be treated at this time. Trees with a history of borer problems should receive their first spray now (repeat twice at 3-week intervals). Begin fertilizing annuals. Continue at regular intervals. Bulbs can be moved or divided as the foliage dies.

Vegetables: Remove rhubarb seeds stalks as they appear. Set out peppers and eggplants after soils have warmed. Plant sweet potatoes.

Turfgrass: Zoysia lawns may be fertilized now. Apply no more than 1 pound of actual nitrogen per 1,000 square feet.

Week 4

Ornamentals: Pinch back mums to promote bushy growth.

Vegetables: Make new sowings of warm-season vegetables after harvesting early crops.

Fruits: Prune unwanted shoots as they appear on fruit trees.

Turfgrass: Watch for sod webworms emerging now.

June (all month)

Turfgrass: Water turf as needed to prevent drought stress. Mow lawns frequently enough to remove no more than one-third the total height per mowing. There is no need to remove clippings unless excessive. Gradually increase the mowing height of zoysia lawns throughout the summer. By September, the mowing height should be 2 to 2.5 inches. Mow bluegrass at 2 to 3.5 inch height. Turfgrasses growing in shaded conditions should be mowed at the higher recommendations.

Week 1

Ornamentals: Watch for bagworms feeding on many garden plants, but especially juniper and arborvitae. Deadhead bulbs and spring flowering perennials as blossoms fade. Thin seedlings to proper spacings before plants crowd each other.

Vegetables: Repeat plantings of corn and beans to extend the harvest season.

Fruits: Oriental fruit moths emerge. Most serious on peaches where first generation attacks growing tips. Shoots will wilt. These should be pruned out. Thinning overloaded fruit trees will result in larger and healthier fruits at harvest time. Enjoy the strawberry harvest.

Turfgrass: Zoysia can be fertilized now while actively growing. Do not exceed 2–3 pounds of actual nitrogen fertilizer per 1,000 square feet per year.

Week 2

Ornamentals: Apply organic mulches as the soil warms. Apply a balanced rose fertilizer after the first show of blooms is past. Apply a second spray for borer control on hardwood trees.

Fruits: Renovate strawberries after harvest. Mow the rows; thin out excess plants; remove weeds; fertilize and apply mulch for weed control. Summer fruiting raspberries are ripening now.

Week 3

Ornamentals: Plant tropical water lilies when water temperatures rise above 70 degrees. Pruning of spring-flowering trees and shrubs should be completed before month's end. Softwood cuttings can be taken from trees and shrubs as the spring flush of growth is beginning to mature.

Fruits: Begin control for apple maggot flies. Red-painted balls that have been coated with tanglefoot may be hung in apple trees to trap egg-laying females. Spray trunks of peach trees and other stone fruits for peach tree borers.

Week 4

Ornamentals: Trees and shrubs may still be fertilized before July 4. Continue spraying roses with a fungicide to prevent black spot disease.

Fruits: Prune and train young fruit trees to eliminate poorly positioned branches and to establish proper angles.

PHOTO BY STEVE CLINE

From Pots to Planks

Don't pitch those plastic pots and trays after planting your new garden plants! Recycle them and receive a free pass for two to the Garden. The Garden's Plastic Pot Recycling Program has saved over 275 thousand pounds of plastic from the landfill. In 2003, we converted 30,000 pounds of horticultural plastic into 2 x 6-inch plastic "lumber" in 8-foot lengths that is particularly suited to the construction of raised garden beds. Complete the recycling loop: recycle your pots and purchase new garden planks.

Collection dates:
Every Saturday and Sunday in June, 9 a.m. to 4 p.m. Drop-off site is the west parking lot of the Monsanto Center, 4500 Shaw Boulevard. Gardeners should empty all soil from containers and remove any metal hangers before recycling. Household plastic and clay pots cannot be accepted.

Purchase planks:
All sales of plastic lumber and raised bed gardening kits go toward the cost of recycling and the Youth Gardening Program, and may be purchased in the Garden Gate Shop. For more information, call Dr. Steven Cline, manager of the Kemper Center for Home Gardening, at (314) 577-9561 during regular business hours from 9 a.m. to 5 p.m. This program is funded by the St. Louis-Jefferson Solid Waste Management District, Missouri Department of Natural Resources, and the Environmental Improvement and Energy Resource Authority.

the website... www.mobot.org

Plant Finder: Cultural information on over 2,000 plants growing in the Kemper display gardens.

Find-A-Plant: Search the living plant database to find what plants are growing in the Garden and where.

Gardening Help: Information on over 300 gardening topics, including all Hortline messages.

Integrated Pest Management: Diagnostic and control measures for nearly 100 of the most common insect, disease, and environmental problems encountered in Missouri.

Plants of Merit: Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

Plants in Bloom: Updated weekly at the Garden, along with current photos, updated biweekly.

PHOTO BY TIM PARKER

What's going on in that photo?

Our savvy readers wrote in to inquire about the photo that appeared in the March/April issue of the *Bulletin* featuring the Climatron with big pink tulips. The largest flower in the picture is beautiful, but knowledgeable gardeners recognized the telltale signs of tulip fire or Botrytis blight, a fungal disease to which all tulips are susceptible. The Garden faces the same challenges, pests, and diseases as all home gardeners in the St. Louis region. Such infected bulbs are destroyed and the soil treated to reduce future problems.

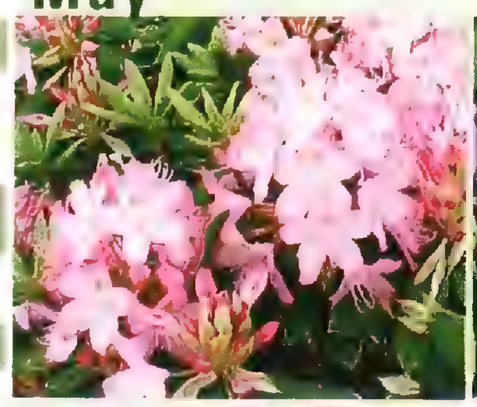
Win $$!

It's time for the annual *St. Louis Post-Dispatch* Great Garden Contest. Co-sponsored by the Missouri Botanical Garden, The Bug Store, and FOX-2, this year's contest will have prizes of over $6,000 in gift certificates and categories include: Best Garden Design by an Amateur; Best Garden Design by an Amateur with Professional Help; Best Garden Tended by a Group; Best Container Garden; Best Collection Garden; and Best Garden Vignette. Entries must be postmarked by June 11. Watch www.stltoday.com in May for more information.

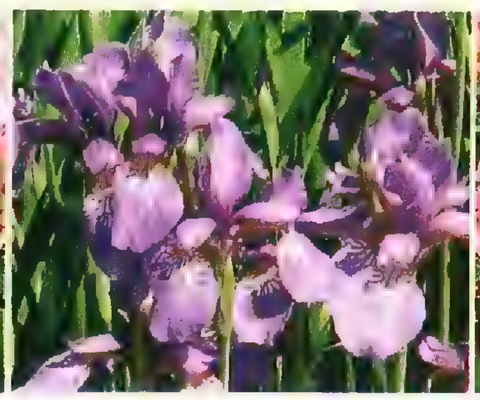
PLANTS IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

May



Rhododendron



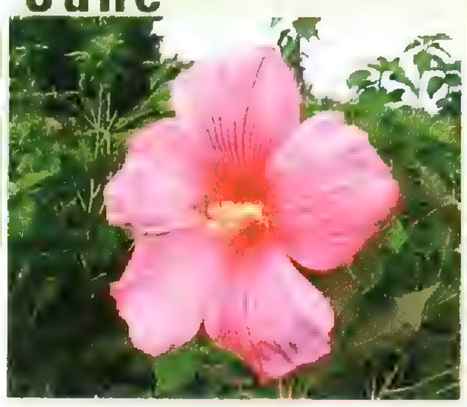
Iris

Peony

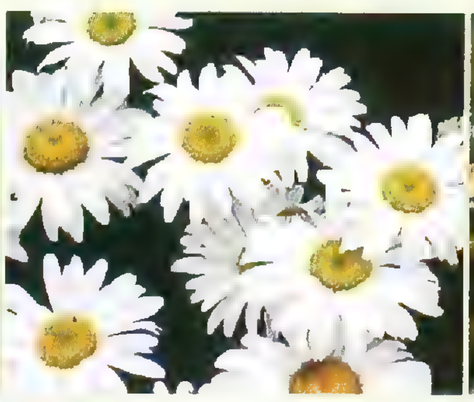
Rose

Dogwood

June



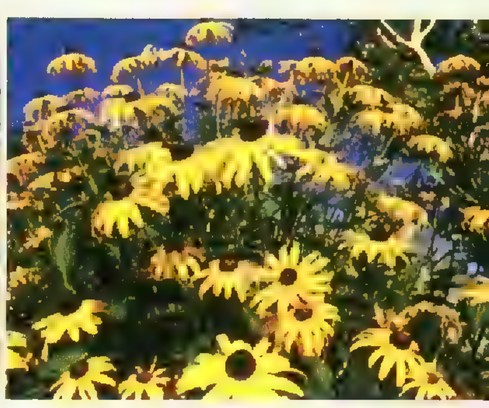
Hibiscus



Daisy

Asiatic Lily

Clematis



Black-eyed Susans

Nor do I try to keep a garden, only
An avocado in a glass of water—

from a poem by James Merrill

Kitchen Botany

By Chip Tynan, *Answer Service Manager*

It was somewhere between the diced avocado and the lime juice in your fourth batch of Cinco de Mayo guacamole that your mind wandered to gardening. "Hey!" you thought. "I wonder if I could plant these seeds and grow my own?"

Actually avocados (*Persea americana*) can be sprouted and grown with ease as a houseplant, but I've never known a potted specimen to bloom, much less bear fruit. Trees are typically self-infertile and require cross-pollination, but it's a complicated process as not just any other avocado will do. Individual flowers open twice on successive days and only nearby trees that release pollen at the same time of day when the female flowers are receptive will be suitable. Commercial orchard growers have identified named cultivars and classified them as to compatibility.

Potted avocado plants initially develop an ungainly habit, with a tendency to grow rapidly straight for the ceiling. Young trees often don't respond well to pruning, but with time and patience a handsome plant can be developed once they start to branch on their own. I recall an old friend's magnificent specimen that he patiently shaped with meticulous pruning for over 30 years. It became a beautiful small tree growing in a handsome wooden tub that he festooned with tiny white lights every Christmas season.

Citrus can also be easily grown from seeds, but don't waste time with grapefruits unless you'll be satisfied with foliage, but no flowers. Both Calamondin oranges (*Citrus* x *microcarpa*) and Kumquats (*Citrus japonica*) will produce bearing trees at a young age in containers. My mother-in-law used to make a dynamite "mock" Key Lime pie substituting calamondins in place of the limes.

If growing a gourmet beverage is your goal, consider a Coffee tree (*Coffea arabica*). Only fresh, raw unroasted beans are liable to sprout and it will take four to five years to your first harvest, but patience will be rewarded. At a recent Kemper Center volunteer training session on houseplants, the class, guided by instructor Glenn Kopp, harvested and dried coffee beans picked from three small trees growing at the Center. These were then roasted, ground, brewed, and enjoyed by all at the conclusion of the course.

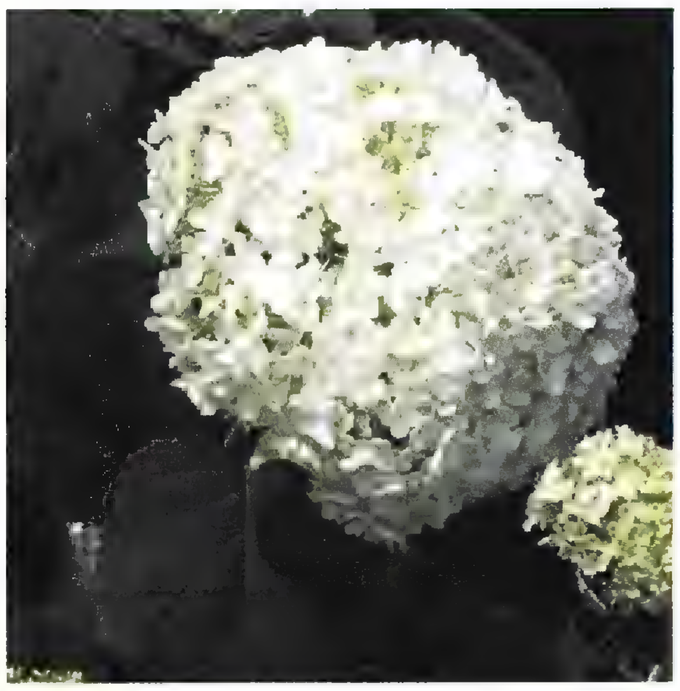


PHOTO BY ALAN STENTZ

FEATURED PLANT OF MERIT

Smooth hydrangea *Hydrangea arborescens*

Native to Missouri, where it grows along ravines and streams, and at the base of bluffs, this deciduous shrub may reach 10 feet in the wild. In cultivation, it is frequently cut back hard in late winter. Blooms throughout the summer with flowers arranged in symmetrical, rounded heads. Oval, dark green leaves grow to 8 inches long. Native Americans used the roots of this species for various medicinal purposes. Best grown in well-drained soil in part shade. Intolerant of drought.

Plants of Merit™ are selected by Garden staff for outstanding qualities and dependable performance in the St. Louis area. View all current PMs on the website: www.mobot.org/gardeninghelp.

Japanese Iris growing along the zigzag bridge in the Japanese Garden

AN IRIS PRIMER

The iris is one of the oldest and most widely grown of all perennials. The multihued flower takes its name from the Greek for "rainbow." Admired for their beauty since ancient times, irises were nevertheless cultivated by the ancient Egyptians primarily for their rhizomes, which were used as a source of medicine and perfumes, a practice brought to Europe by the Greeks. In the Middle Ages, the French adopted the flag iris, or "Fleur-de-lis" as the royal emblem, a symbol that is still seen today on the flag of the city of St. Louis.

Iris flowers have six petals. The three upright petals are called "standards" and the three that hang down are called "falls." The genus is composed of 200 or more species in two major groups: rhizomatous and bulbous. The former is by far the most common garden iris.

Rhizomes are underground stems that function as a storage organ for food produced by the leaves. Each year, underground offshoots develop from the original rhizome. These offshoots may be divided and transplanted to grow new irises. The rhizomatous group is divided into three subgroups: bearded, crested, and beardless irises.

Thanks to their extraordinary variety of color, size, shape, and cultural characteristics, irises can be a part of almost any landscape. They enhance perennial borders in sun or partial shade, and some varieties even thrive in rock gardens and marginal soils, or in wet areas along the borders of ponds and lakes. Choose species carefully to meet the needs of your site.

Planting

Plant rhizomatous irises in late July to early September in a sunny, well-drained location. Later planting may not allow adequate time for plants to become established. Never plant irises where water will stand on the bed. Iris beds should be prepared at least two weeks in advance to allow the soil enough time to settle. Work in organic matter such as well-decayed manure or compost, as well as a 5-10-10 fertilizer.

When planting, dig two slanting holes about two inches apart and five inches deep, leaving a shallow ridge of soil between them. Set the rhizome firmly on this ridge and spread half of the roots into each hole. Cover the roots and firm the soil around them, leaving the rhizome partially exposed. Cover each rhizome completely, but not deeply, so that the rhizome is slightly exposed. Firm the soil around the rhizome and water in well to settle the soil. Generally iris clumps are planted 18 to 24 inches apart.

Maintenance

Irises generally require very little maintenance. They need adequate moisture in the spring and fall and appreciate a good drying-out in the summer. Remove faded flowers on a routine basis to allow space for new flowers to develop. After all the flowers have faded, cut the flowering stem to the ground. Apply a very light, loose mulch around the plants to keep the soil cool and the weeds under control.

Division

Divide irises every 3–5 years in late summer in the St. Louis area. Cut back the leaf fans to one-third their original height. Use a spade to lift out the entire mass. Wash the clumps, and carefully inspect the rhizomes for rot and other damage. Use a sharp knife to separate the rhizomes. Dip your knife in a solution of one part bleach to nine parts water between cuts to keep the tool sterile. Be sure to leave as many roots as possible. Discard the old center divisions and replant the fans with the cut-back foliage.

MBG Iris Sale

Saturday, July 31, 9 a.m. to 5 p.m.

The Garden's iris collection wouldn't be possible without the tremendous dedication our spirited volunteers have for promoting their favorite flower. Currently eight members of the Greater Saint Louis Iris Society come in weekly to weed, cultivate, remove spent blossoms, etc., as well as maintain the inventory and keep the collection on the cutting edge. They also manage the annual dig, divide, and sale held in late July. Proceeds are used to purchase new plants and other garden supplies. Don't miss this once-a-year event.

Research Note

The Garden has on staff one of the world's foremost experts on the Iris family. Peter Goldblatt, Senior Curator and B. A. Krukoff Curator of African Botany, specializes in the Iridaceae family generally with a special interest in the plants of Africa.

PHOTO BY TIM PARKER

Alice Goodman Memorial Iris Garden

What's New at the Garden?

Bulb (and rhizome)-ologist Jason Delaney took time out to answer some quick questions about the Garden's iris displays.

1. What's new in the iris gardens this year?

A lot! Aside from the addition of five new beds and some changes in the pathway surface, many new irises have been planted, coming from all over the United States. We completely overhauled the iris collection last fall to prepare for 2005, when the American Iris Society will hold their annual convention in St. Louis, bringing 450 top iris enthusiasts from all over the world. The new plantings represent recent and future introductions of irises—brand new irises that will debut in our garden! The Iris Garden currently includes bearded, Japanese, Siberian, spurias, and species irises. Also unique to our display is a complete collection of Dykes Medal awardees. The Dykes Medal is the highest award bestowed upon a bearded iris, given to one plant annually since 1927. This collection grandly represents the evolution of the flower through decades of hybridizing.

2. What are the best areas to see iris in the Garden?

Of course, the Alice Goodman Memorial Iris Garden is the centerpiece. Five new beds were added last fall, thanks to a generous contribution from the Greater Saint Louis Iris Society. There are many other irises planted throughout the Garden. "Flags" abound in the Dry Streambed, Japanese iris grow along the zigzag bridge in the Japanese Garden, and the Kemper and Swift Family Vista gardens have irises intermingled in the perennials. Bulbous irises of many kinds grow in the bulb and rock gardens.

3. What's "hot" in irises this year?

We have some new double Siberian irises, which are new in the iris world. Broken color irises are new and quite popular with the public. Some of the exceptional new tall bearded irises include 'First Wave,' a ruffled mid-blue; 'Crackling Caldera,' brilliant orange; 'Waiting for October,' a white/orange two-tone and rebloomer; 'Natural Blond,' a ruffled creamy peach; 'Telepathy,' an orchid/purple luminata; and 'Zebra Jim,' a broken color type.

VOLUNTEER

PHOTOS BY DIANE WILSON

Volunteer Service Recognition

Last year, volunteers at the Garden numbered 1,254. They contributed 112,197 hours of service, or the equivalent of 57 additional full-time employees. The largest numbers of volunteers work in Horticulture and Education divisions, but volunteers help out in almost every area, and the Garden could not operate at current levels of international renown and community outreach without the help of these dedicated individuals and groups. On March 25, the Garden hosted the annual volunteer service recognition luncheon honoring volunteers for their 10-, 20-, and 30-year commitments.

Thirty-year volunteer *Gene Jarvis (left) with Deb Lalumondier, her volunteer supervisor.*

Twenty-year volunteers. *Seated, from left: Jean Leonhardt, Eileen Hahn. Standing, from left: Carolyn Ullensvang, Paul McClinton, Ann Buhr, and Billie Beyer. Not pictured: Jeanette Neuner.*

Ten-year service volunteers. *Seated, from left: Lois Schoech, Gloria Donahue, Sue Slivka, Joanna Gerst, John Muller. Standing, from left: Richard Russell, Don Jacobsmeyer, Nancy Wallace, Marion Werner, Jack Tucker, and Joyce Landauer. Not pictured: Ruth Clark, Kim Joern, Sue McNamara, Kah-Kim Ong, Royal Robbins, Rose Rosen, Alfred Schwartz, Mark Tolcou, and Huber Walsh.*

Make a difference...again!

Members of the Garden have already helped make a difference through their financial contribution, but you can make a difference again when you contribute your time as a volunteer. For information on the many and various opportunities awaiting you as a Garden volunteer, contact Jackie Juras at (314) 577-5187.

Little Shop Connoisseur Cabinet Sam Clark

Since its grand opening, the Little Shop Around the Corner has been visited by savvy shoppers from across St. Louis, and everyone keeps asking the same question: "Who designed the shop? It looks fantastic!" "We owe it all to Sam," says shop founder Evelyn Newman. That's Sam Clark, renowned Director of Display for Famous-Barr for over twenty years and originator of fantastic holiday windows across 122 locations.

Now retired, Clark heard the call and joined Newman's "Connoisseur Cabinet," an elite group of volunteer experts who review, appraise, and consult with the Little Shop. In the 1960s, Sam was also a co-owner of Montileone's, the famous Gaslight Square coffee shop across from the Crystal Palace. "You can own a little piece of history if you shop at the Little Shop," says Clark taking a brief break from his latest project. "Those white ice cream chairs on the wall are the originals from Montileone's patio!" Then he's off again with an armful of flowers, part of a new springtime display for the Little Shop's windows.

Thanks to Sam's fanciful displays, merchandise is flying out the doors of the Little Shop. Whether you're spring-cleaning or just downsizing, please consider this additional, tax-deductible way to support the Garden. For questions about how or what to donate, please call Little Shop Manager Judy Sokolik at (314) 577-0891.

PHOTO BY ELIZABETH MCNULTY

RESEARCH

PHOTOS BY ELIZABETH MCNULTY AND CARMEN ULLOA ULLOA

Left: Dr. Carmen Ulloa Ulloa holding the 5.5 millionth specimen entered into the Garden's herbarium. Right: Nototriche hartwegii, *a species endemic to southern Ecuador, rediscovered after 150 years.*

Herbarium Milestone

An essential cornerstone of botanical research, the herbarium is a library of dried plant materials, which allows researchers to compare plants that grow in different regions side by side. The Garden's herbarium, one of the largest and fastest growing in the world, reached 5.5 million specimens late last year with the addition of *Nototriche hartwegii* (Malvaceae, the mallow family), an endemic species from southern Ecuador, recently rediscovered after over 150 years.

Garden Curators Drs. Carmen Ulloa Ulloa and Peter Jørgensen together with Ecuadorian colleagues collected *Nototriche hartwegii* A. W. Hill in 2000 and 2003. The species was found in Cajas National Park, Azuay province in southern Ecuador. The National Geographic Society funded both expeditions.

"After returning from our trip in 2000, we were eager to know which species this could be, as we had not seen it before," says Ulloa. Over the course of an additional trip and research on three continents, the researchers determined that it was indeed *N. hartwegii*, a little-known species described in 1909, missing since German botanist Theodor Hartweg first collected it in January 1842.

The plant grows on rocky steep hills in the "páramo," a treeless grassland ecosystem. It forms cushions of about 6 feet in diameter. The leaves are crowded and covered with a dense layer of white hairs. Flowers are blue-violet and about 1.5 inches long.

Over 4,500 plant species are only found in Ecuador, representing about one-quarter of all the country's plants. Over 83% of these endemic species are endangered. *N. hartwegii* is protected inside Cajas National Park, but the small population size makes it a vulnerable species.

Greater Web Search

In January, the St. Louis Research Libraries Consortium unveiled a newly created shared database of library and archival materials. Founded in 2002, the Consortium consists of three of St. Louis's preeminent cultural organizations—the Missouri Historical Society, the Saint Louis Art Museum, and the Garden—who share a common interest in preserving their important research collections and allowing greater access to researchers. Since the libraries of these institutions have distinct subject emphasis (history, art, and science, respectively), sharing this online database creates a significant and diverse web-based Arts-and-Sciences resource. The Andrew W. Mellon Foundation funded the initial hardware purchase and intensive first year of start-up operations. Ongoing maintenance will be shared by all three partners, who plan to continue collaboration on digitization and education projects that will make additional material available via the internet. Check out this great resource at www.slrlc.org.

TRIBUTES

January—February 2004

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

in honor of

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Mr. and Mrs. Henry W. Dubinsky

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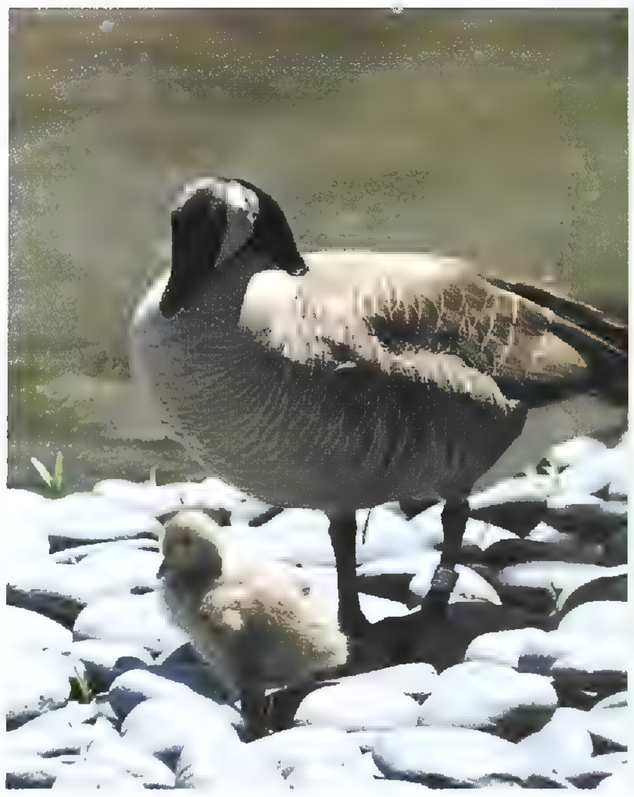
PHOTO BY JACK JENNINGS



Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, at (314) 577-9455 for further information and a complimentary brochure.

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Ms. Leianna Rabenau
Ms. Mary Ellen Coyle
Ms. Charlotte E. Schmidt

The Garden Gate Shop has everything you need for the Whitaker Music Festival. Get ready for summer! Enjoy a picnic on the beautiful Garden grounds every Wednesday evening in June, July, and August. Come in and see our large selection of picnic baskets, festive melamine plates, glasses, napkins, candles, and food items.

Garden Gate Shop

4344 Shaw Blvd. • (314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

Special offers and events!

May 1
Photographer Jack Jennings signs his book *Seasons*, 11 a.m. to 1 p.m.

May 1–2 Herb Society Benefit

May 5-9
Members receive an additional 10% off on all personal products and stationery.

May 8–9
Members receive an additional 10% off bonsai, bonsai tools, and books.

May 13
Chris Bechtold, author of *A Current Adventure: In the Wake of Lewis and Clark*, lectures and signs books, 1 p.m.

May 16 Herbal bonsai workshop and booksigning by Richard Bender, author of *Herbal Bonsai*, 1 to 3 p.m.

May 19–23
Members' sale: Members receive 20% off all merchandise

May 22
Barbara Lawton will sign her book *Mints: A Family of Herbs and Ornamentals*, 11 a.m. to 1 p.m.

May 27
Linda Copeland, author of *Legends in the Garden: Who in the World is Nellie Stevens?* lectures and signs books, 3 p.m.

June 5
Cactus workshop by the Henry Shaw Cactus Society, 11 a.m. to 1 p.m.

Members receive an additional 10% off cactus and carnivorous plants, related books, and soil.

Carol S. Porter, author of *Meeting Louis at the Fair: The Projects and Photographs of Louis Clemens Spiering, World's Fair Architect*, signs books 11 a.m. to 1 p.m.

June 12
Roy Folzenlogen, author of *The Nature of Missouri: A Year in the Heartland*, signs books 11 a.m. to 1 p.m.

June 26
Edna Campos Gravenhorst, owner of Three Nosy Broads Historical Home Research firm, will sign her book *Historical Home Research in the City of St. Louis*, 11 a.m. to 1 p.m.

Don't forget: food tastings take place every Wednesday from noon to 3 p.m.
Trunk shows every Saturday and Sunday

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Mr. and Mrs. Richard J. George

Mr. Anatoli Ravkina
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Mother's Day Brunch

Enjoy springtime in the Garden with the annual Mother's Day brunch buffet. Sunday, May 9. Seatings at 10 a.m., 11:30 a.m. and 1 p.m. Reservations only: (314) 577-9530. Adults $24.95; children $11.95 (5 and under, free).

garden café

(314) 577–0200
fax: (314) 577–9216
e-mail: catering@mobot.org

MEMBERS' ENTRY COURT

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from January 15, 2004 through March 15, 2004.

bronze signature brick

Hohenberger Family
Carol Hohenberger

Mr. and Mrs. John P. Kiske
Friends and Family of John P. Kiske

engraved clay bricks

Marge and Eddie Becker
The Daniel Hayes Family

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Jeanette Mulcahy, DDS

Melvin and Helen Diehl
Carolyn, JoAnn, Molly, Sally and Yousef

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Sharon Stocker

Michael Loren Tucker
Martin Hick

Jean Ann Weaver
Angela Kavouros
Janet Skaggs

KIDSTUFF

Get in on the Groundbreaking

May 8, 11 a.m., west of the Climatron.

Don't miss out on the start of the great Missouri Adventure, as the Garden breaks ground for the new Doris I. Schnuck Children's Garden. Members and their children (and grandchildren) are invited to dig in and help out. Plastic construction hats and shovels will be available for children, while supplies last.

Scheduled to open in 2005, this exciting new attraction will introduce kids at their most impressionable and curious ages to the significance of plants and nature in innovative ways. The children of the Donald Schnuck family have provided the lead gift to name the new garden in honor of their mother, Doris I. Schnuck.

Through interactive themes of "A Missouri Adventure," mid-19th-century history and botany will be brought to life with an appeal for both kids and adults. While completely integrated into the Garden's educational programs, the new Children's Garden will be first and foremost about family fun.

The **Entry Walk** introduces historical characters of Lewis, Clark, and Sacagawea; Mark Twain; Daniel Boone; and Henry Shaw. A gift from A.G. Edwards funds construction of the Entry Walk.

On **Adventure Plaza**, a waterfall will remind visitors of the central importance of water and rivers in Missouri history. This area is a gift of Jane and Robert Tschudy and The Spoehrer Charitable Trust.

The **Cave Experience** will recreate a key part of the Missouri landscape and offer opportunities to learn about plant and animal adaptation and ancient Native American cultures.

In the **Wetland**, kids will explore the pond, swamp and river ecosystems that formed the lifeblood of Missouri, cross a "river" on a ferry raft, and see the abundant life in pond samples.

The **Canopy Climb** provides sweeping vistas of the Garden, where kids can climb safely among the branches of the mature Osage Oranges. The Monsanto Fund has named this feature.

The Village will be a central gathering place where children can learn about plants used for food, medicine, clothing, shelter, and other important economic functions.

The Garden is very grateful to the donors who have generously supported areas of the new garden. This ground-breaking ceremony provides a unique opportunity to participate in the future of the Garden. For more information on how you can help, please contact director of development Patricia Arnold at (314) 577-5120.

Garden of Opportunities

The Garden's catalog of teacher and school programs, *A Garden of Opportunities*, is now available for the 2004-2005 school year. Call (314) 577-5140 to request a copy.

Buzzing and Blooming

Register now for the last May dates of the Garden's smash new hit "Garden Buds" program for children 3–5 years. Smell the flowers, visit a beehive, and pot some plants to take home. Sunday, May 16, 1 p.m.; Saturday, May 22, 10 a.m.; or Thursday, May 27, 9:30 a.m. $18 per child; free for adults. Advance registration required; call (314) 577-9506 for information.

Missouri Botanical Garden Library
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CALENDAR OF EVENTS

May

Through Sun., May 23
"Shudder Bugs!" Your closest, grossest friends in a new invertebrate exhibit. BH.

Through Sun., Jun. 27
Wilderness Wagon narrated tours. Weekends in May and June. (636) 451-3512. SNR.

Sat. & Sun., May 1 & 2
"As You Like It—Lickety Split!" presented by the Shakespeare Festival of St. Louis touring company. 1 and 3 p.m.

"Violets Return to the Fair." Metropolitan St. Louis African Violet Council's 49th annual show and sale. 9 a.m. to 5 p.m. RC.

Sun., May 2
Greater St. Louis Iris Society early show. Noon to 5 p.m. RC.

Live music performance by Windfire concludes the spring season of Classic 99's "From the Garden, Live"® concert series, broadcast live on 99.1 FM. Noon. Free. Call (314) 725-0099 for tickets. RC.

Thurs. & Fri., May 6 & 7
25th Annual St. Louis Storytelling Festival. For information, go to www.umsl.edu/~conted/storyfes/

****Fri., May 7**
Spring Wildflower Members Presale. 4 to 7:30 p.m. SNR. See page 13.

Sat., May 8
Groundbreaking ceremony for the new Doris I. Schnuck Children's Garden. 11 a.m. See page 30.

Spring Wildflower Sale. 9 a.m. to 4 p.m. SNR. See page 13.

Sat. & Sun., May 8 & 9
Greater St. Louis Dahlia Society show and sale. 9 a.m. to 5 p.m. RC.

Rose Society of Greater St. Louis sale. 9 a.m. to 4 p.m. RC.

Bonsai Society of Greater St. Louis show and sale. 9 a.m. to 5 p.m. RC.

Sun., May 9
Mother's Day brunch buffet in the Garden Café. Seatings at 10 and 11:30 a.m., and 1 p.m. Reservations required; call (314) 577-9530.

Mother's Day brunch at the Butterfly House. Seatings from 11:30 a.m. to 2 p.m. Reservations required; call (636) 733-2339.

****Thurs., May 13**
Spring Luncheon and Fashion Show. See page 6.

Sat. & Sun., May 15 & 16
Chinese Culture Days. See page 6.

Fri. & Sat., May 21 & 22
Victorian home renovated to demonstrate energy-efficient systems. Tours at 10 a.m., 11 a.m., noon, and 1 p.m. $2 (free for members). EH.

Sat., May 22
American Rock Garden Society sale. 9 a.m. to 5 p.m. RC.

"Be A Butterfly," a one-hour class for four-and five-year-olds and their family members. 10 a.m. $10 ($8 for members). BH.

Mon., May 24 through Fri., July 9
"On the Wild Side" exhibition by John O'Dell. RC and SNR.

Tues., May 25 through Sun., Sep. 12
"Blast From the Past!" exhibit on the evolution of insects through the ages. BH.

****Thurs., May 27**
Rose Evening. See page 6.

Sat. & Sun., May 29 & 30
Rose Society of Greater St. Louis show. Sat.: noon to 5 p.m. Sun.: 9 a.m. to 5 p.m. RC.

June

Wednesdays
Whitaker Music Festival. See page 7. 7:30 p.m. Free.

Thurs., June 3, 10 & Sun., Jun. 13
"Camp Bug A Loo: Butterflies." Designed for kids ages 2–4, accompanied by an adult. Each one-hour session is $10 for one child and one adult ($8 for member and child). Pre-registration is required; call (636) 530-0076, ext. 13. BH.

Sat., Jun. 5
Carnivorous Plant Society show and sale. 10 a.m. to 5 p.m. RC.

Greater St. Louis Iris Society late show. Noon to 5 p.m. RC.

The Garden Conservancy Open Days program tours the garden of the Bryant family at 2021 S. Warson Road. 10 a.m. to 4 p.m. Call 1-888-842-2442 for details.

****Fri., Jun. 4**
Musical Evening. See page 6.

PHOTO BY TIM PARKER

Father's Day

This Father's Day give Dad a Garden Membership and receive a free Whole Thing car wash from Waterway Gas and Wash, "The Best Car Washes in Town." His gift Membership will be entered into a drawing for a Clean Car Club Membership, which provides unlimited car washes all year long and discounts on gasoline. Offer valid May 17 through June 20, 2004. Call (314) 577-5118 for details, or visit us at www.mobot.org.

Sat. & Sun., Jun. 5 & 6
"St. Louis Blooms: Coming Up Roses," celebrating the best display of roses in St. Louis with guided tours and educational activities. See pages 8–9. Sponsored by VisitBritain.

Sat. & Sun., Jun. 12 & 13
St. Louis Horticultural Society show and sale. Sat.: noon to 5 p.m. Sun.: 9 a.m. to 5 p.m. RC.

Wed., Jun. 16
"Be A Butterfly," a one-hour class for four-and five-year-olds and their family members. 10 a.m. $10 ($8 for members). BH.

Thurs., Jun. 17
"Ten-Year History in Green Conversations." Special guests include EarthWays Home founders and current supporters. Light refreshments. 6 to 8 p.m. Reservations required, please call (314) 577-0220. EH.

Fri. & Sat., Jun. 18 & 19
Victorian home renovated to demonstrate energy-efficient systems. Tours at 10 a.m., 11 a.m., noon, and 1 p.m. $2 (free for members). EH.

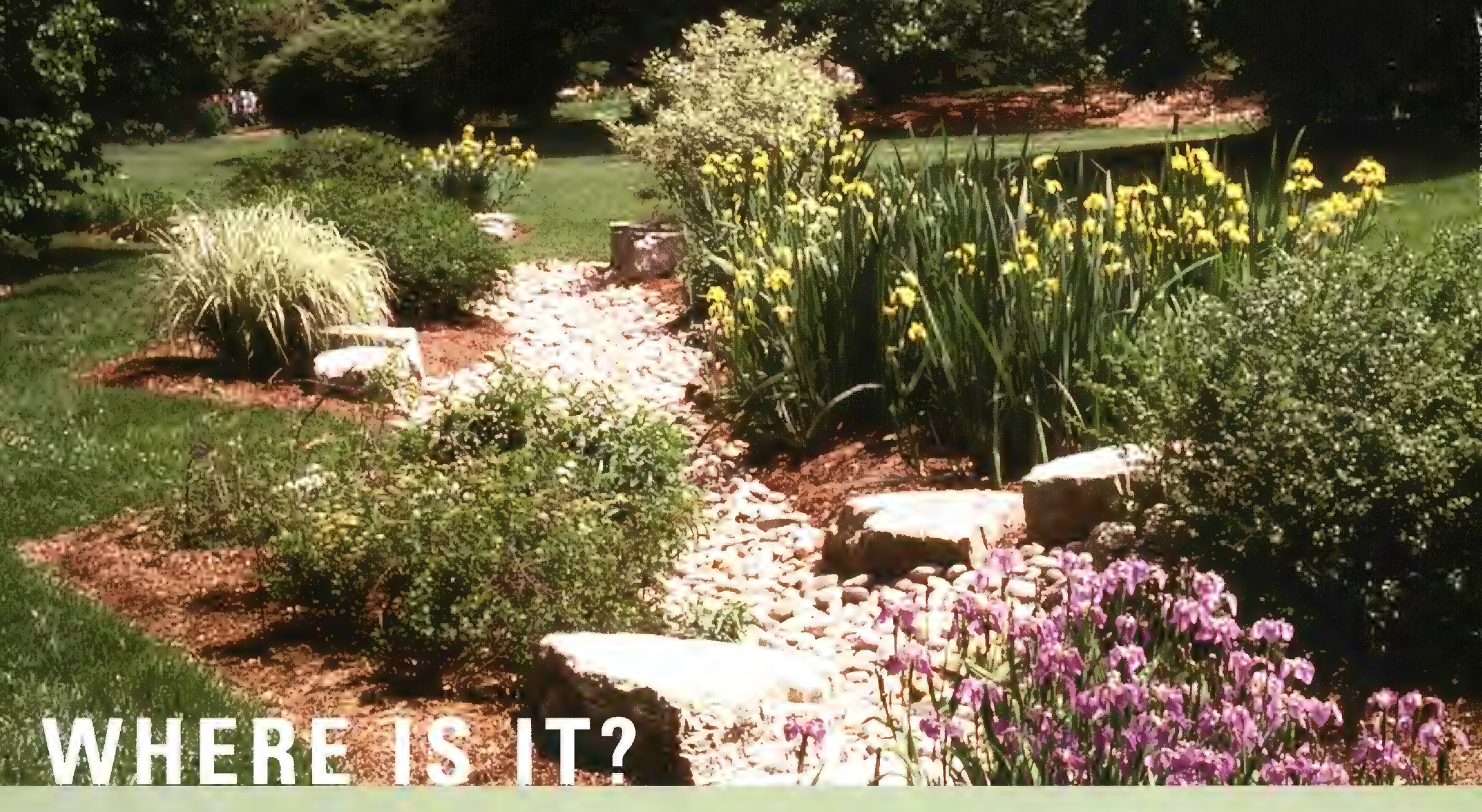
Sun., Jun. 20
Father's Day Field Day. See page 15. 11 a.m. to 2 p.m. BH.

Sun., Jun. 27
West County Daylily Society show and sale. Show: noon to 5 p.m. Sale: 9 a.m. to 5 p.m. RC.

the key

CA = Cohen Amphitheater	GGS = Garden Gate Shop	MC = Monsanto Center	SP = Spink Pavilion
CL = Climatron	JG = Japanese Garden	RC = Ridgway Center	** denotes a members-only event.
EH = EarthWays Home	KC = Kemper Center	SNR = Shaw Nature Reserve	$ denotes an additional fee.

All events are free with admission or membership unless otherwise noted.



WHERE IS IT?

As a way of popularizing less well-known areas or views of the Garden, we're putting their picture on the *Bulletin's* back cover. Founded in 1982, the Dry Streambed Garden nestles in the knolls and leads to a small pond with aquatic plants. It is also the only place in the Garden to see the "fleur-de-lis" iris (*Iris pseudacorus*), the emblem of France featured on the flag of the city of St. Louis.

contact information

Events hotline:	(314) 577-9400
Toll free 1-800-642-8842	
Garden Café:	(314) 577-5196
Daily, 9 a.m. to 5 p.m. (Wed. & Sat. from 7 a.m.)	
Garden Gate Shop:	(314) 577-5137
Daily, 9 a.m. to 5:30 p.m.	
Horticulture Answer Service:	(314) 577-5143
Weekdays, 9 a.m. to noon	
Main switch	(314) 577-5100
Children's Education:	(314) 577-5140
Communications:	(314) 577-0254
Composting Hotline:	(314) 577-9555
Continuing Education:	(314) 577-9441
Corporate Partners:	(314) 577-5113
Development:	(314) 577-5120
Facility Rental:	(314) 577-0200
Group Tours:	(314) 577-0275
Henry Shaw Society:	(314) 577-9495
Library:	(314) 577-5155
Membership:	(314) 577-5118
Planned Gifts:	(314) 577-9455
Senior Programs:	(314) 577-9506
Tribute Gifts:	(314) 577-0874
Volunteer Services:	(314) 577-5187

Garden family

Butterfly House: (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Home: (314) 577-0220
3617 Grandel Square in Grand Center, St. Louis, MO 63108

Little Shop Around the Corner: (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110
Wed. through Sat., 10 a.m. to 4 p.m; Sun., noon to 4 p.m.

Shaw Nature Reserve: (636) 451-3512
Hwy. 100 & I-44, Gray Summit, MO 63039

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. (and Wednesday evenings in summer 2004). Parking is free.

Admission
- Free for members
- General admission is $7
  $3 for St. Louis City/County residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County residents.
- Children age 12 and under—free.
- Admission free to St. Louis City/County residents until noon every Wednesday and Saturday throughout the year, (except Japanese Festival and Best of Missouri Market).
- Special events may require an additional fee.

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Designer: Ellen Flesch
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MISSOURI BOTANICAL GARDEN

Bulletin

July/August 2004 Vol. 92, No. 4

Leapin' Lilies

PHOTO BY PETER HOWARD

To discover and share knowledge
about plants and their environment
in order to preserve and enrich life.

—mission of the Missouri Botanical Garden

from the director...

As we approach Henry Shaw's birthday on July 24, we have many accomplishments to celebrate that are in keeping with our founder's visionary plans. One of the most exciting is the Doris I. Schnuck Children's Garden. Opening a year from now, the Children's Garden should prove a major new attraction for young families, with fun, educational activities for all ages. On May 8, the Schnuck family, along with Robert and Jane Tschudy and representatives from A.G. Edwards and the Monsanto Fund, broke ground for this transformative new project.

As another major component of the Stewards of the Earth campaign, the Garden has a renewed focus on revitalizing adjacent neighborhoods. Residents of those neighborhoods led the planning and implementation process, and ground was broken in early June for the largest market-rate housing development in more than a quarter century in the city of St. Louis. We are very proud of the progress that our neighbors have made and we hope you will help us help them.

To that end, in this issue we include the first of four *Stewards of the Earth* newsletters to provide more in-depth coverage of campaign developments and opportunities for giving. We hope you'll pull it out and read it, then pass it on to a friend as an additional way to spread the word and support the Garden. And, of course, we are very grateful for donors who have already made contributions.

As our members know, the Garden is extremely lucky to have a wonderful staff of horticulturists who create the magnificent gardens we all enjoy. Their skills were recognized recently when the American Association of Botanical Gardens and Arboreta (AABGA) awarded the Garden the first-ever "Excellence in Horticulture" award. Our heartfelt congratulations to this most talented crew and especially to Dr. Shannon Smith, Director of Horticulture.

On a final note, after more than seven years, Jonathan Kleinbard, the Garden's Deputy Director, has decided to retire. Jonathan spearheaded the Garden's neighborhood revitalization efforts and has worked tirelessly to advance the Garden's status locally, nationally, and around the globe. We are very grateful for his many contributions. He will be greatly missed.

Peter H. Raven

Peter H. Raven, *Director*

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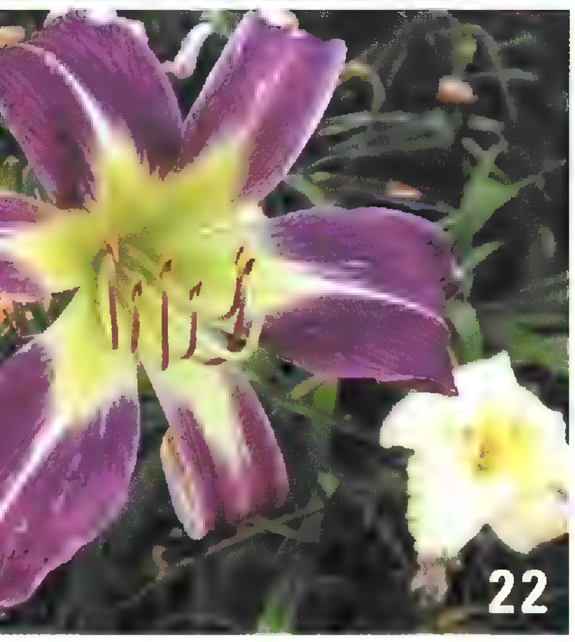
WHAT'S INSIDE?



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MISSOURI BOTANICAL
JUN 2 9 2004
GARDEN LIBRARY

editor's note...

Summertime and the living is…well, hot and sweaty. When the temperature and barometer start to sync up in the high 90s, it's time to leave the backyard to your sprinkler's best efforts and head to the Garden. With dozens of fountains and pools, ponds, streams, waterfalls, and a lake, not to mention the hundred-year shade trees, the air feels cooler here. Pick up a refreshing beverage in the café, then stroll the grounds and refresh your spirit in the masses of flowers that are peaking in July and August—roses, dahlias, lotuses, and all things "lily." Do you know your lilies from your daylilies? Brush up your knowledge this issue (pages 22–24), then visit the Garden. Join us to welcome the annual return of our signature waterlilies this year with "Leapin' Lilies," a weekend of tours, information, and activities for kids (see pages 8–9). Stop by the Kemper Center for Home Gardening and compare their vegetable garden to your own: if yours stacks up, maybe you should enter the NatureSweet Best Homegrown Tomato Challenge (see page 7). Celebrate Henry Shaw's birthday with cookies and lemonade on the plaza, then witness the strange beauty of cacti/succulents in the "Plants as Art" exhibit during the Henry Shaw Cactus Society show and sale (see page 31). Whatever your interests, the Garden is the place to chill this summer.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

The Missouri Botanical Garden is engaged in a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. The campaign, which also targets support for the 79-acre St. Louis campus and the Shaw Nature Reserve in Gray Summit, already has raised in excess of $65 million and seeks an additional $6 million in private gifts by 2005. The funds will support Garden research, education, and the facilities required to enhance interpretation and display.

Top from left: U.S. Senator Christopher "Kit" Bond; Garden Director Dr. Peter H. Raven; St. Louis Mayor Francis Slay; Dell Breeland, President of the McRee Town Neighborhood Association; and Darryl T. Jones, President of the Garden District Commission.

Center left: Ground-breaking for the model homes by McBride & Son Homes.

Center right: Garden Director Dr. Peter H. Raven says a few words while Dell Breeland looks on.

Bottom: One, two, three, dig! The ground-breaking kicks off for the 160–200 new owner-occupied houses planned by McBride & Son Homes, the largest market-rate housing development in the last quarter century in St. Louis city.

PHOTOS BY DIANE WILSON

Garden District Revitalization

As part of the bequest of Henry Shaw, he mandated that the Garden trustees care for the surrounding neighborhood that it should forever remain "pleasant and attractive" to visitors. Today, the Garden is challenged to revitalize these neighborhoods into environments where visitors and staff will live and raise their families, and where other institutions and businesses thrive.

Over the last several years, the Garden has served as a catalyst to re-create sustainable communities adjacent to it in a holistic approach that includes new and renovated homes, first-class educational opportunities for children, and a strong social fabric.

The highest priority is McRee Town, a neighborhood that has suffered from disinvestments over more than a quarter century, a population decline of more than 30 percent in the last ten years, high infant mortality and crime rates, lead poisoning, and unemployment.

In a community-based planning and implementation process initiated by the Garden, area residents are leading a revitalization which is already bearing fruit. Construction of the largest market-rate housing community in the city of St. Louis has been initiated in the McRee Town neighborhood, soon to be known as Botanical Heights.

On Monday, June 7, a ceremonial groundbreaking was held at 39th Street and Blaine Avenue, for the display homes master developer McBride & Son Homes will use to sell the 160–200 owner-occupied houses they plan to build between 39th Street, Thurman Avenue, Lafayette, and Folsom. Another 40 to 60 homes will be constructed on vacant parcels between Thurman and Tower Grove Avenue, where some buildings are being rehabbed for subsidized units.

"The primary stakeholders—the residents themselves—have shown dynamic leadership to bring these exciting developments to pass," said Dr. Peter H. Raven, Director of the Garden. "Shaw's instruction—that we improve the surrounding neighborhood—is even more true today than in Shaw's time when the area was largely farmland."

Joining Raven were U.S. Senator Christopher "Kit" Bond, who obtained federal funding for the project; St. Louis Mayor Francis Slay, who has long advocated and supported the project; supporting Alderman Joseph Roddy; Dell Breeland, President of the McRee Town Neighborhood Association and a long-time resident of that community; and Darryl T. Jones, President of the Garden District Commission, the independent entity established with Danforth Foundation funding in 1998. The Commission is composed of residents of the four neighborhoods surrounding the Garden and has been instrumental in planning and implementing the project.

The display homes should be completed in two months for prospective buyers to visit. Several models bear floral nicknames, like Jasmine, Iris, Azalea, and Orchid. New houses will range in cost from $119,000 to well over $200,000. After discussions with residents, McBride has designed homes to fit into the neighborhood which are urban in concept with vertical brick fronts and rear entry garages, but featuring all the modern conveniences of contemporary construction and customization.

Neighborhood revitalization is a major component of the Stewards of the Earth campaign. The project is funded through many sources, both public and private, and the campaign is committed to provide $3 million in funding.

Special Delivery

For more information about the Stewards of the Earth campaign, please see the special insert at the center of the *Bulletin*. This newsletter is the first of four designed to provide more in-depth cover of exciting campaign developments and new opportunities for giving.

you can help!

PHOTO BY TRENT FOLTZ

For more information on making a gift to the Neighborhood Revitalization project, please contact the office of the Director of Development, Patricia Arnold, at (314) 577-5120. Special tax incentives may apply.

JULY & AUGUST

PHOTO BY TIM PARKER

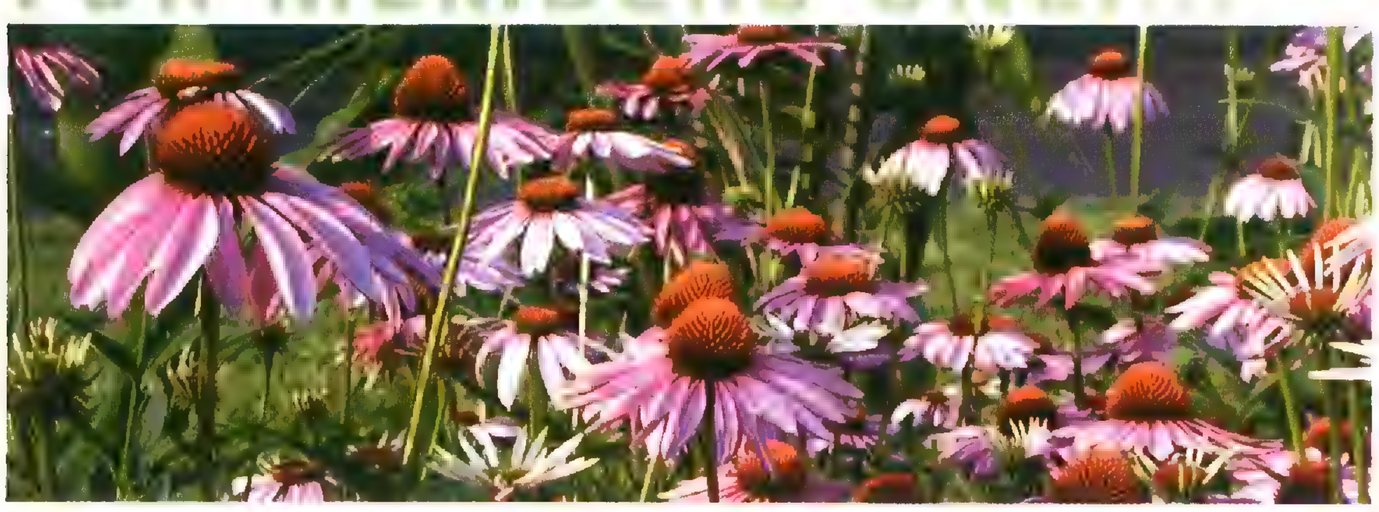
Whitaker Music Festival
Wednesdays, July 7 through August 25
Free concert at 7:30 p.m.
Cohen Amphitheater

Whitaker Music Festival

The Whitaker Music Festival continues every Wednesday night in July and August, bringing the best of local jazz, blues, bluegrass, Cajun, and more to thousands of visitors. So pack a picnic and spend a night listening to music under the stars. For the full schedule, or in case of rain, check the Garden's website (www.mobot.org) or tune into 106.5 Smooth Jazz for announcements. Admission to the Whitaker Music Festival is free, thanks to the generous support of the Whitaker Foundation.

Left: Johnnie Johnson at the 2000 Whitaker Music Festival. Don't miss his birthday bash this year on July 7.

FOR MEMBERS ONLY...



Floral Design Made Easy

Local floral designer and author Pat Scace teaches the tricks of the trade in this dynamic, hands-on demonstration of the art of floral design. Learn how to take the flowers in your garden (or from your local florist) and transform them from "just a bunch" into a beautiful bouquet. Pat will be available to sign copies of her book *Floral Artist Guide* after the presentation.

Friday, July 16
11 a.m.
Shoenberg Auditorium

Bringing Nature Home

Scott Woodbury, the Horticulture Supervisor at the Shaw Nature Reserve, will explore the benefits of using native plants in home landscaping projects. Learn how native plants can provide showy, low-maintenance displays while providing habitat for a multitude of birds and butterflies. Scott will answer all your questions about the increasingly popular "Grow Native" movement and provide valuable handouts.

Thursday, August 19
11 a.m.
Shoenberg Auditorium

Gourmet in the Garden

Enjoy cocktails in the Kemper Center gardens, then gourmet dinner in the Spink Pavilion, featuring the best of local produce and wine.

Menu—Goat cheese with crabmeat cheesecake on a bed of vegetable slaw. Followed by whole roasted Missouri bison strip loin with a pepper-bourbon mustard and broiled Missouri trout with a lemon dill crème fraîche, Vidalia rings stuffed with a red potato hash, and flash-fried collard greens. For dessert: white and dark chocolate bread pudding with strawberry ice cream.

Drs. Patricia and Peter H. Raven will attend on July 20. Reservations are $85 per person, and seating is limited, so please book early by calling (314) 577-9500.

Tuesdays, July 6 and July 20
6 p.m. cocktails, 7 p.m. dinner
Kemper Center, Spink Pavilion

PHOTOS BY JACK JENNINGS, DIANE WILSON AND COURTESY NATURESWEET

Geodesic Turns 50!

The geodesic dome was patented in 1954 by inventor-philosopher Buckminster Fuller. To celebrate the 50th anniversary, the U.S Postal Service is issuing a commemorative stamp. On Wednesday, July 14, a Stamp Dedication Ceremony will take place outside the Climatron, the world's first geodesic dome greenhouse. Fuller called the Climatron "the finest application of my theory I've ever seen." Special edition envelopes (cachets for collectors) and a cancellation featuring the Climatron will be available at the Garden Gate Shop from 11:30 a.m. to 1:30 p.m.

Wednesday, July 14
11 a.m.
outside the Climatron

Happy Birthday, Henry!

Henry Shaw was honored in countless ways during his lifetime for the contributions he made to the growth and prosperity of the city of St. Louis. Here at the Garden we continue to honor him each year on his birthday for his vision in establishing the Missouri Botanical Garden, and offering its beauty to the public for eternity. Come and meet Henry Shaw and enjoy old-fashioned entertainment including an organ-grinder, a silhouette artist, a stilt walker, a Victorian fashion parade, childrens' games, and birthday refreshments.

Saturday, July 24
10 a.m. to 3 p.m.
Spoehrer Plaza

Sweet Tomatoes

Think you've got sweet tomatoes? Bring three samples from your garden to our Garden on Saturday, July 31 and prove it at the NatureSweet Best Homegrown Tomato Challenge. Any variety or method of growing is allowed, but all entrants must be homegrown by the entrant. Finalists will be chosen based on overall appearance, color, and sweetness of their produce. A panel of local celebrity judges will taste-test the tomatoes and award the winner $5,000. All entrants will receive a special gift. Tomato recipe samples will be provided, while supplies last, as well as information on gardening organizations in St. Louis.

Saturday, July 31
10 a.m. to noon
Cohen Amphitheater

PHOTO BY DIANE WILSON

Japanese Festival
Sat. & Sun., Sep. 4 & 5
10 a.m. to 8 p.m.
Mon., Sep. 6, 10 a.m. to 5 p.m.
$10 for adults ($7 seniors)
$3 for members and children age 12 and under

COMING SOON

Japanese Festival

This year, celebrate the festival of the pine at Japanese Festival 2004. On hand will be the crowd-pleasing Hinode Taiko Rising Sun Drummers and the Candyman spinning sugary works of art for lucky children. *Anime* screenings return for a second year, and new in 2004 will be *Koryu*, the martial art of the samurai. Discover the deep symbolism of *Seiwa-en* by taking a guided walking tour during the day, then return for a candlelight stroll on Saturday and Sunday nights until 10 p.m. For full details, check out the Garden's website—www.mobot.org—where the complete schedule will be available in August.

LEAPIN' LILIES

ST. LOUIS BLOOMS!

The Garden returns to its "roots" this year, celebrating the changing seasons of St. Louis's best horticultural display. From the first bursts of bulb-beautiful spring, to the long-running rainbow of roses starting May, waterlilies in late summer, and chrysanthemums and leaf color in fall, the Garden is where St. Louis really blooms!

Leapin' Lilies
Saturday & Sunday, August 14 &15
pool talks at 10 a.m., noon, and 2 p.m.
educational activities for kids 10 a.m. to 3 p.m.
one lucky child (12 and under) will win a photo-op
on a *Victoria* lily each day
(recipient must be present to win)

PHOTO BY JACK JENNINGS

LEAPIN' LILIES 2004

In summer's heat, we welcome that return of the Nymphs to the Garden's pools. The waterlilies, or *Nymphaea*, begin to bloom in July and continue into October. Tender, tropical waterlilies are divided into night-bloomers and day-bloomers. Savvy visitors can see both kinds open together if they visit in late morning or early evening—perhaps on the way to the Whitaker Music Festival on Wednesdays?

Then there are the *Victoria*, or giant waterlilies, which produce the huge green lily pads up to six feet across. This year, as part of the festivities, your child (age 12 and under) could win the once-in-a lifetime opportunity to pose on a *Victoria* lily pad.

On Saturday and Sunday, August 14 and 15, the Garden celebrates "Leapin' Lilies" with special interpretive talks by the Garden's horticulturist Jon Sweeney, who will don his hip-waders and speak from the midst of the reflecting pools. Kids will delight in educational activities designed to foster little green thumbs. Sign up to enter into the drawing for the very special photo opportunity for one lucky child (age 12 and under) each day at 2 p.m. The recipient must be present to win. See the "Water Lilies," an exhibition of 12 oil paintings by John R. Lautermilch. Don't miss the lilies' spectacular debut this year.

An interview with the expert

With 60–70 different cultivars growing at the Garden this year, MBG horticulturist **Jon Sweeney** is a busy man. His take on this year's display follows. For more information and for instructions on how to grow *Victoria* lilies specifically, see the Garden's website: www.mobot.org/mobot/hort/lily.

How are the waterlilies organized?

"In the big pools in front of the Climatron, we use cultivars that spread out and grow large. The east pool near Spink Pavilion contains George Pring hybrids developed here at the Garden. The center pool features the *Victorias* and a mix of tropical lilies from our stock tuber collection. The west pool directly in front of the Climatron features many newer varieties, also cultivars that did especially well the year before, and varieties that have not been displayed in a few years that are still considered top of the line.

Home growers will be especially interested in the smaller pools in front of the Linnean House, where I use varieties that stay a little more compact. The Linnean pools also feature marginals—plants that are submerged in a pot and grow out of the water or float on the water surface, which make nice companion plantings to the waterlilies."

What's "hot" in waterlilies for 2004?

"Mottled foliage: green foliage with stripes and/or speckled with maroon markings. Blue and purple blooms are always hot because only tropical day-blooming lilies have such hues. Showstoppers include 'Anne Emmett,' a day-blooming flower with purple-blue, green, and yellow on the same flower. 'Star of Zanzibar' is a day-bloomer featuring great mottled foliage and huge purple flowers.

Among the classics, I recommend 'Missouri,' a Pring hybrid, white night-bloomer with green foliage. At 12 inches across, these are probably the largest flowers you'll see among the tropicals. 'Henry Shaw' is a blue-violet day-blooming Pring hybrid named after the Garden's founder. The large blue-violet flowers have a deep yellow cup. The Garden's *Victoria* waterlilies are always a crowd-pleaser: large pads with huge white flowers."

Leapin' Lilies 2004 is proudly sponsored by Starbucks.

PHOTO COUTESY MBG ARCHIVES

This could be you! *Shaw's first head gardener, James Gurney (at left) poses with his granddaughter at the lily pools he introduced to the Garden. One lucky child (12 and under) will win a photo-op on a* Victoria *lily during Leapin' Lilies.*

A Short History

Waterlily history is inextricably intertwined with the Garden. Henry Shaw's first head gardener James Gurney worked with *Victoria* lilies as a young man at the Royal Botanic Gardens–Kew, where he once presented the flower to Queen Victoria. In the 1890s, Gurney introduced waterlilies to both the Garden and Tower Grove Park, where he later served as the first superintendent.

In 1906, another Englishman, George Pring joined the staff of the Garden as an orchid specialist. In 1914, he turned to breeding waterlilies because of their shorter bloom cycle (one year compared to seven for orchids) and the challenge (only a few people were working on them). Today, he is considered the "father of tropical waterlilies," having produced over 40 cultivars, including the elusive yellow lily, 'St. Louis,' for which he was granted a patent.

Today, senior horticulturist Steve Wolff carefully stores the Garden's collection of rhizomes and tubers in sand before gently coaxing them to life again in the greenhouse tanks. Once the outdoor water temperature reaches 72 degrees, usually around the first week of June, horticulturist Jon Sweeney and crew plant them out into the Climatron and Linnean reflecting pools.

Thanks

A dozen volunteers get in the water and do weekly pruning, deadheading, and fertilizing. "They are a very dedicated group and do wonderful work," says Jon Sweeney.

NEWS

PHOTO BY DIANE WILSON

Deputy Director Retires

Jonathan Kleinbard retired as Deputy Director at the end of June, although he will continue to serve the Garden in that capacity and as a consultant on the neighborhood project until a successor is in place.

"It's been a good trip for Joan and me, a truly satisfying experience," Kleinbard says of his more than seven years at the Garden working closely with Dr. Raven overseeing the day-to-day operations. "There comes a point when it is important to allow younger persons to assume these administrative responsibilities," he adds.

In addition to the Neighborhood Project and the Children's Garden, Kleinbard introduced a number of other new ventures and recruited a series of senior level leaders. He joined the Garden in April 1997 after serving as vice-president of the University of Chicago. Originally from Philadelphia, he and his wife, Joan, are returning there.

"Jonathan's contributions to the Garden and the community have an enduring, sustaining quality," says Dr. Raven. "I am personally very grateful for his devotion to our mission. He will always be a good friend."

PHOTO BY ELIZABETH MCNULTY

Hand-hewn canoe featuring plants of the Lewis and Clark trail.

Lewis and Clark in the Lobby

On view now in the Ridgway lobby is a handmade dugout filled with plants in honor of the Corps of Discovery's bicentennial. Approximately 12 feet long and weighing over 400 pounds, the fully functional canoe was hewn by chainsaw from a cottonwood that grew at Shaw Nature Reserve by Garden horticulturist Alan Boefer.

Species of plants recorded by Lewis and Clark on their westward journey will be displayed in rotation. Currently on view: Big Bluestem, Eastern Wild Ginger, Rigid Goldenrod, Pacific Nineback, and Windflower. Stop by and take the self-guided tour, The *Lewis and Clark Plant Trail*, a free map directing visitors to 27 plants and trees at the Garden that were discovered and described by the explorers throughout their journey.

Illustrated Garden ends August 22

The Illustrated Garden exhibit continues at the Saint Louis Art Museum now through Sunday, August 22. Don't miss this unique opportunity to see the treasures of the Garden's rare botanical books and prints before they are locked away again for safekeeping and preservation. On Thursday, July 22, enjoy a special one-hour presentation by botanist Barney Lipscomb on "Art and Science: A Botanist's Eye: Redouté and the Art of Floral Illustration," beginning at 1:30 p.m. at the Saint Louis Art Museum.

Garden of Excellence

Horticulture magazine, in partnership with the American Association of Botanical Gardens and Arboreta (AABGA), has given its 2004 "Garden of Excellence" Award to the Missouri Botanical Garden. The annual award honors a botanical garden or arboretum that exemplifies the highest standards of horticultural practice, design, and display. The winning institution is selected by its peers and is featured in *Horticulture* magazine the following year.

Dr. Steven Cline leads the AABGA delegation on a tour of the Kemper Center for Home Gardening during a two-day seminar last fall.

Qualifications are based on the highest standards of horticultural excellence; gardening practices appropriate to a local or regional environment; a demonstrated commitment to plant collections and to a national or regional horticultural community; and encouragement of gardening students at all levels through innovative horticultural practices.

"The awards committee and board members all agreed that the Missouri Botanical Garden was most deserving because of its comprehensive horticulture program that is a model for public gardens and gardeners around the country," says Kathleen Socolosky, director of the University of California-Davis Arboretum and chair of the AABGA Awards Committee.

"The Garden is blessed with a superlative horticulture staff led by Dr. G. Shannon Smith," says Dr. Peter H. Raven, director of the Missouri Botanical Garden. "We're very proud of this award and pleased to share the splendid beauty of the Garden with the people of the St. Louis region and other visitors."

New Look

Visitors to the Garden's website may be pleasantly surprised, following a year-long redesign of the site's appearance and usability.

"We surveyed users to determine how they interacted with our website, what their needs were," says the Garden's Application Development Manager Chris Freeland. "The redesign is a direct result of our new level of knowledge."

In addition to easier navigation and access to basic information like hours, directions, and maps, the new website includes a Flash animation "slide show," donated by local web developers Atomicdust and a place to sign up for the Garden's new email newsletter. Check it out at www.mobot.org.

PHOTO BY JOSH MONKEN

The New Little Shop mural breathes new life into a city corner.

PHOTO BY JOSH MONKEN

Hundreds of kids gathered to break ground for the new Children's Garden.

PHOTOGRAPHER RYAN DONNELL
WWW.RYANDONNELL.COM

Lord Hartington, son of The Duchess of Devonshire, who received the Henry Shaw Medal.

Worth a Thousand Words

In June, artists put the finishing touches on the latest addition to the Little Shop Around the Corner: a lively mural. Nestled in the burgeoning Garden retail district beside World's Fair Donuts, and around the corner from Gringo Jones and the Bug Store, the Little Shop has been doing a brisk business since opening earlier this year, and the mural is sure to attract even more attention.

"[Muralist] Andy Milner did a fantastic job," says shop founder Evelyn Newman. "The artwork brings the cheerfulness of the shop's interior right out to the sidewalk."

On the Wall Productions, producers of theatrical sets for the Muny Opera, won the commission.

Meanwhile, savvy shoppers are snapping up the antiques, collectibles, and luxurious home furnishings at top speed and more donations are needed. Whether you're downsizing or just redecorating, won't you consider this additional, tax-deductible way to support the Garden? For questions about how or what to donate, please call the Little Shop at (314) 577-0891.

Children's Garden Groundbreaking

On Saturday, May 8, hundreds of tykes in kiddie construction hats wielding wee plastic shovels joined in the fun as the Garden broke ground for the Doris I. Schnuck Children's Garden, set to open in May 2005. Doris and her son Scott Schnuck, president of the Garden's Board of Trustees, turned the first ceremonial shovelfuls, joined by Garden Director Dr. Peter H. Raven.

"The Doris I Schnuck Children's Garden will have a transformative effect on the Garden's education efforts," says Raven. "We will be able to introduce children at their most impressionable ages to the significance of plants and nature in fun, interactive, and—most of all—effective ways."

The Garden is very grateful to the donors who have generously supported areas of the new garden. For information on how you can help, contact the Development Office at (314) 577-5120.

Henry Shaw Medal

On Wednesday, May 5, the Missouri Botanical Garden awarded the 2004 Henry Shaw Medal to Her Grace, the Duchess of Devonshire, for her continuation of the legacy of Chatsworth—a 16th-century mansion with fantastic greenhouses and gardens that were an inspiration to Henry Shaw, who visited in 1851.
An accomplished author, noted preservationist, gifted entrepreneur, and garden historian, Deborah Mitford Cavendish, the eleventh Duchess of Devonshire, moved into Chatsworth in 1959, creating with her late husband the Chatwsorth House Trust to preserve and restore the property and to make it accessible to the public.

Awarded since 1893, the Henry Shaw Medal honors those who have made a significant contribution to the Missouri Botanical Garden, botanical research, horticulture, conservation, or the museum community.

GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

PHOTO BY BETH HAINES

A south-facing garden pergola holds solar panels that generate electricity for the EarthWays Home.

Recycling Honors

The Missouri Recycling Association has recognized two Garden programs with its 2004 Outstanding Recycler Awards. LEAP (Leadership in Environmental Action Projects), coordinated by Chris Kalter of Gateway Center for Resource Efficiency, is the "Outstanding Education Program" of the year. Meanwhile, the Kemper Center for Home Gardening's plastic pot recycling program, led by Dr. Steve Cline, demonstrates "Best Use of A Recycled Material" by converting tons of horticultural plastic into "lumber" sized for building raised garden beds and other construction projects around the home. See page 21 for more details on this exciting program.

EARTHWAYS HOME

Renewable Energy for a Hotter Topic

Demonstrations at the Garden's EarthWays Home will spotlight technology and benefits associated with renewable sources of energy during a special Open House Weekend, July 16–18. Docents and staff will welcome visitors from 10 a.m. to 4 p.m. each day, with guest exhibitors on hand Saturday and Sunday.

"Renewable energy is generated in America. It creates jobs, protects the environment, and reduces dependence on foreign oil," says Bob Solger, owner of The Energy Savings Store, a primary sponsor of the event. Electricity and fuel produced from abundant wind, hydrogen, and sunlight reduces human demand for limited natural resources, such as coal, petroleum, and natural gas. The energy needed to heat and power buildings and vehicles, and to produce many kinds of goods and services, can be generated in safe, clean, and affordable ways.

A photovoltaic—or light conversion, i.e., solar power—array supplies electricity for kitchen appliances and outdoor lighting at the EarthWays Home. New technology now exists to integrate solar panels with roofing materials in shingles that serve as power plants for the buildings they shelter!

A geothermal, or ground-source, system uses the Earth's constant subsurface temperature instead of outside air, as the basis for cooling and heating. Visitors to the EarthWays Home can learn how these renewable energy systems are increasingly used in homes, schools, and "green" commercial buildings.

Wind is the world's fastest growing form of energy production. The U.S. Department of Energy has estimated that wind turbines built on just 6% of land in our country could meet 150% of our current electricity demands. Electricity from wind also provides an economical way to electrolyze water and produce hydrogen, which can then be used in fuel cells that may soon power our vehicles, homes, and workplaces.

Come to Renewable Energy weekend at the EarthWays Home to learn how purchasing "green tags" supports wind power production, and view demonstrations of fuel cells and other renewable energy technologies.

For more information on Renewable Energy Open House Weekend, July 16–18, call (314) 577-0220 or visit www.earthwayshome.org. Admission is free for Garden members! See Calendar listings for details.

One of over 250 acres of restored prairie at Shaw Nature Reserve in bloom now!

SHAW NATURE RESERVE

Big Reserve on the Prairie

Two hundred years ago, tallgrass prairie covered North America roughly from the Western Great Lakes region to Texas and the Dakotas, dominating the Midwestern landscape in the era before European settlement. When Lewis and Clark passed through the area, they noted the grasses and the many animals and plants it sheltered. When Henry Shaw first rode out to scout locations for his country home, he described his property southwest of St. Louis as "a beautiful prairie extend[ing] westward, uncultivated, without trees or fences, but covered with tall, luxuriant grass, undulated by the gentle breezes of spring." Today, this would be the Garden and surrounding neighborhood.

Flat or gently rolling, treeless, with a thick layer of black, loamy soil, prairie was prime agricultural land, appreciated nearly to the point of extinction by generations of farmers. Today, 98% has been been lost and prairie ecosystems are essentially an endangered "species," but some people are trying to bring it back, acre by acre, including the folks at the Shaw Nature Reserve. Since 1980, the Reserve staff, in cooperation with the Missouri Prairie Foundation, Missouri Department of Conservation, and the Edward K. Love Conservation Foundation, have actively planted prairie vegetation in the former pasture and agricultural land there. Today, there are over 250 acres of restored prairie at the Reserve.

Restoring a prairie is a great challenge. As Dr. James Trager, Restoration Biologist of the Shaw Nature Reserve tells us, "We think of prairies now as complex, living 'organisms,' with each part essential to the success of the whole." The Reserve's prairie is home to over 200 native plant species (and counting!) as new species are discovered and introduced each year. This diversity provides the basis of a thriving ecosystem.

From May to October, the prairie bursts into bloom, a kaleidoscope of wildflowers waving in the breeze. So don your hat and sunscreen and be sure to visit the big reserve on the prairie this summer.

Map-tastic!

Be among the first this July to take the new Shaw Nature Reserve visitor guide map for a test drive. Created using satellite photographs and GPS information, the map shows topography as well as the latest and greatest trails and features. You might learn more about your favorite locations, or even find things you never knew existed.

"We worked hard to create the most user-friendly map possible for a 2,400-acre reserve," says Shaw Nature Reserve Director John Behrer. "The new map will help beginners find their way more easily, while providing regulars expanded options and information."

Try out your map reading skills, and enjoy the prairie in full bloom this summer at the Shaw Nature Reserve.

PHOTO BY JIM RATHERT

Nature Exposed

Jim Rathert remembers being a Cub Scout in Columbia, MO, seeing a film sponsored by the Missouri Department of Conservation, and thinking "I've got to do that," he recalls. After 10 years as a field biologist for the Conservation Department, he realized in 1984 that it was the photography he enjoyed most of all, and he's been the photographer behind those fantastic nature shots in the *Missouri Conservationist* magazine ever since.

On Sunday, July 11, the Shaw Nature Reserve opens an exhibit of Jim Rathert's photographs at the Bascom House. Rathert will be on hand that afternoon to meet visitors and sign copies of his new book *In Focus*. The exhibit runs through August. The Bascom House is open Tuesday through Sunday, 10 a.m. to 4 p.m.

The Butterfly Pages

PHOTO BY MARK DEERING

The Emerson Lakeside Terrace will provide a beautiful backdrop for your next event.

Terrace Turns Two

The Emerson Lakeside Terrace turns two this year. Opened just in time for Wing Ding 2002, it will again serve as the backdrop for this year's event. The spacious 10,000 square-foot terrace with open-air pavilion is ideally situated near the large reflecting pool, affording lovely views of both the Native Habitat and the "crystal" facade of the tropical butterfly conservatory. The space can accommodate 200 guests for a sit-down dinner party and is available for private evening events April through October. Heaters keep the chill at bay in colder months, while ceiling fans and breezes from the lake cool the terrace in summer. Recent events have included everything from weddings and corporate events to the Royal Order of the Jesters and a Wild Canid Sanctuary fundraiser. Guests have the option of two caterers of record: Patty Long's or Russo's, but do call early because the Terrace books up to 12 months in advance. Party planners, wedding planners, or just plain social planners, please call (636) 733-2339 for more information today.

Exhibits

A Continuing Blast from the Past

The "Blast from the Past" exhibit continues through Sunday, Septebmer 12, at the Sophia M. Sachs Butterfly House & Education Center, tracing the evolution of arthropods through the ages. Witness prehistoric roaches, scorpions, and millipedes as kids learn about fossils, go on a fossil dig and visit the bug bar as part of the fun.

Because insect bodies are soft and lack calcified bone, insect fossils are few, so these displays are full of exotic rarities. Displays include specimens fossilized in rock and a number of insects trapped inside amber, a sticky, honey-colored tree resin from ancient forests. Small invertebrate animals that were unable to break free were preserved inside the amber as it hardened over time. Bring your kids and grandkids and get back to the past at the Butterfly House this summer.

Events

An A-MAZE-ing Day

Saturday, July 24, 10 a.m. to 1 p.m. Prepare to be amazed as you learn about mazes all morning long. Designed for children ages 4–10, A-MAZE-ing Day will challenge kids to find their way out of a human-sized maze, learn tips and tricks for figuring out mazes, then match wits with a friendly cockroach when you can create a maze to outsmart him.

Wing Ding 2004

Saturday, October 9. Remember to save the date for this exciting biennial gala. We hope you'll join us for fine food, music, and dancing al fresco in early fall. Tickets are $250. Please call (314) 577-9495 for details.

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

Classes

Backyard Science

Go to Camp Butterfly and get eye-to-eye with six-legged friends, explore roots and seeds, study the weather, and observe other little critters that skitter and fly through your own backyard. Limit 15 children per program. $125 for the week-long sessions ($100 for members). Registration required. Please call (636) 530-0076, ext. 13. Dates for children entering K–2: July 5–9. For children entering grades 3–5: August 9–13. Camp lasts from 8:30 to 11:30 a.m. each day.

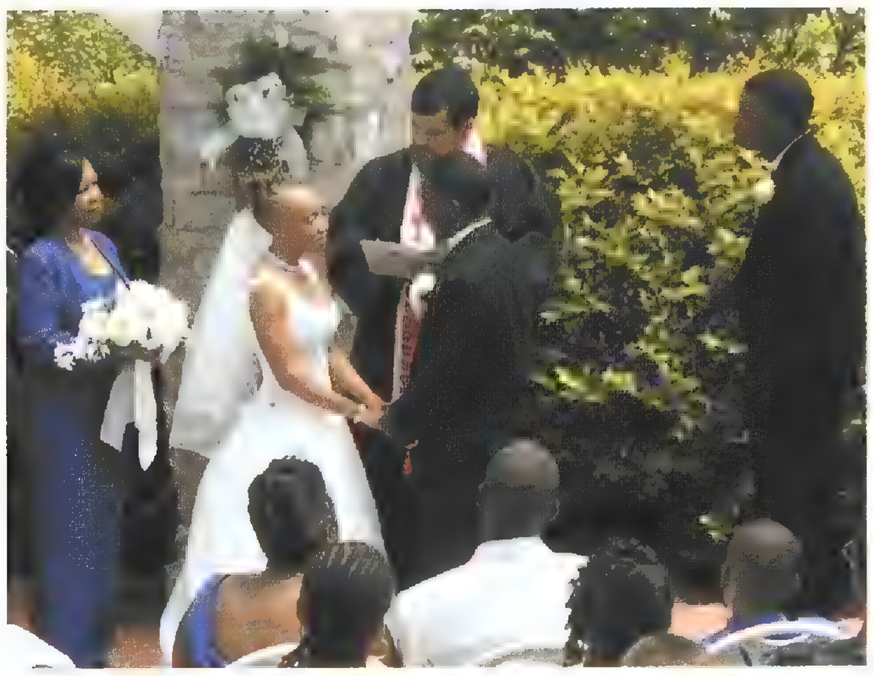
Teacher Workshop

Baffled by butterflies? Inquiring about cockroaches? For two full days, immerse yourself in the insect and invertebrate world. Become familiar with the biology of these tiny creatures as we cover all subjects. Recommended for teachers of K–grade 3. $40 for the two-day workshop, optional university credit available. Tuesday, July 20 and Wednesday, July 21, 9 a.m. to 4 p.m.

Be a Butterfly

A one-hour class for four-and five-year-olds and their family members, "Be a Butterfly" features five species of native Missouri butterflies and moths as children dress up and search for plants on which to "lay an egg" and "sip nectar." 10 a.m. $10 ($8 for members) payable at the door on day of class only. Registration required. Please call (636) 530-0076, extension 13. Late summer dates: Saturday, August 21 and Wednesday, September 8.

PHOTO BY DIANE WILSON



U.S. Airforce Senior Airman Imeka Sawyer-Smith and Airman First Class Kevin Smith wed at the Butterfly

Romance Revisited

On Saturday, May 8, romance was in the air at the Butterfly House, as recipients of the "Romance Revisited" prize package retied the knot. An Air Force couple frequently separated by overseas deployment were the winners of the weekend prize package, which included a romantic wedding-vow renewal ceremony and a reception in the serene lakeside garden.

The couple was selected for their special day by a panel of Butterfly House staff members from dozens of military couples who submitted letters of request, said Amy Hammann, special events manager. "As a small gesture of appreciation for the enormity of their sacrifices, the Butterfly House and a dozen local businesses provided a special, romantic wedding day they will remember forever."

The "Romance Revisited" contest was sponsored by Baymont Inns & Suites, Blustein's Bride's House, Callico's Formal Limousine, Eliot Chapel Clergy Network, Flutes Alive, Mary Tuttle Flowers, Memories Are Forever, Party Pastry Shop, Patty Long Catering, Rogers & Hollands Jewelers, and Stallone's Formal Wear.

The Butterfly House offers a vows renewal package that includes a non-denominational official, music, decorations, dinner, and an overnight vacation in a bed-and-breakfast hideaway. For reservations or information, call (636) 733-2339.

Tributes

March–May 2004

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5154.

in memory of

Carolyn Lerch
Ann Muldoon

in honor of

Ruth Weisman 99th Birthday
Maxine Bromberg

Lucy Lopata 90th Birthday
Lynn & Jordan Lewis

Pavers

March–May 2004

For information on honoring a loved one with a paver, please call the Development Office at (314) 577-5154.

For Always Helen
1953 – 2003
Linda S. Bickel

In Memory of Ryan Cullums—
Love Mommy
Pamela Cullums

Ian A Dubois
Is Love, His Smile Magic
Edwina DuBois

Love Always—Florence Cohen
James E. Marquis

12th of Never—Steve & Pat Baker
Jim Powers

The Loesch Family
Bill Loesch

A Great Aunt Jane Grossman
Nancy Rodgers

Mak Shulist Touched So Many Lives
Andi Sumner

Phil our Buddy Boy
Mr. and Mrs. Paul Taxman

CHILLIN' AT THE GARDEN

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

the Children's Garden

Construction is underway following the ground breaking on May 8 for the Doris I. Schnuck Children's Garden. Many opportunities remain for donors to name portions of the new garden, which is to be completed in 2005.

The new garden will engage young children and their parents in learning about the importance of plants through exploration and activities based on the theme, "A Missouri Adventure." It is expected to become a popular destination, attracting up to 150,000 visitors per year.

Imaginatively designed for a two-acre plot amid historic Osage orange trees, the garden will feature seven activity areas: the Entry Walk, Adventure Plaza, the Cave Experience, Wetlands, Canopy Climb, Potter's Field and the Village. Children will gain an understanding of the importance of plants and natural resources in Missouri's history, and an appreciation of their importance in the future.

Remaining naming opportunities include:

ADVENTURE TREE HOUSE IN THE CANOPY CLIMB:	$250,000
SECRET GARDEN:	$250,000
POLLINATION GARDEN:	$150,000
FORT:	$50,000
OLD MILL HOUSE:	$50,000
VICTORIAN WOOD AND IRON BENCHES:	$15,000 ea.
RUSTIC LOG BENCHES:	$10,000 ea.

For more information on these and other naming opportunities in the Children's Garden, and other Stewards of the Earth campaign objectives, call the office of Director of Development Patricia Arnold at (314) 577-5120.

Campaign Overview STEWARDS OF THE EARTH

The Missouri Botanical Garden is admired throughout the world for the beauty of its grounds and displays of plants, its pioneering efforts in natural restoration, its innovative educational programs, and its discovery and description of new plant species. Increasingly, the Garden is called upon for leadership in helping to preserve the Earth's great biological diversity.

The Stewards of the Earth campaign aims to strengthen the Garden for fulfilling its mission of leadership for decades to come. "Our mission connects research, education, and display of plants," says Garden Director Peter H. Raven. "To support one of our functions is to support all of them."

While the campaign has secured $65 million of its $71 million goal, the need to complete funding for several objectives is critical. Each objective provides recognition opportunities for donors:

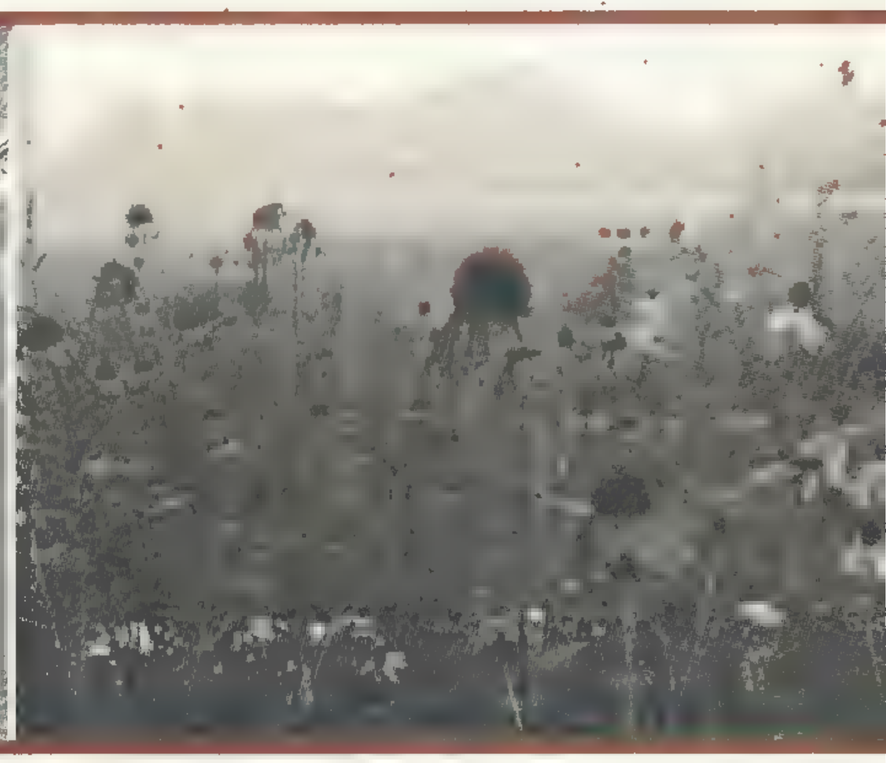
THE DORIS I. SCHNUCK CHILDREN'S GARDEN
Featured on page 1, this garden will be designed especially for young children and their parents, to engage them in active learning about ecology.

THE GEORGE WASHINGTON CARVER GARDEN
This new attraction will honor the Missouri native by displaying and teaching his concepts of sustainable agriculture and environmental stewardship.

SHAW NATURE RESERVE
The Garden is expanding education at its 2,400-acre tract west of St. Louis, where prairie is being restored to its natural state before the first settlers arrived in Missouri. Meeting and support facilities will enable the Reserve to accommodate increasing numbers of visitors.

GARDEN PRESERVATION AND IMPROVEMENT
Some of the Garden's structures, which are more than a century old, are in urgent need of restoration, while the Garden must also invest in general repairs and energy-efficient equipment to support more visitors.

BELOW: The Stewards of the Earth capital campaign has already funded several major initiatives, such as the Commerce Bank Education Center, the Herb Garden renovations behind Tower Grove House, and the Shoenberg Administration Building historic restoration. Campaign goals include improvements to the Shaw Nature Reserve as well.



COMMERCE BANK EDUCATION CENTER

The Center is dedicated to helping teachers and students in the St. Louis region understand the applications of science and mathematics toward solving environmental problems. Additional support will help equip the Center's classrooms with scientific equipment and technology.

ENDOWMENT FOR CURATOR POSITIONS

Endowed funds assure that the Garden can attract and retain highly skilled professionals to maintain its collections. For example, endowments will support curators for popular collections of orchids, roses, and aquatic plants.

GARDEN DISTRICT FUND

Gifts will be combined with government and developer financing to revitalize neighborhoods adjacent to the Garden. Plans for these historic neighborhoods are featured in this issue of the *Bulletin.*

According to Campaign Chair David Kemper, "The Missouri Botanical Garden is a great asset to our city. The Garden's future belongs to all of us, and we're the only ones who can make that future bright… for us, for St. Louis, and for the world."

Make Your Gift Count

We are grateful to donors for their contributions to the Stewards of the Earth campaign for the Missouri Botanical Garden.

All gifts and pledges directed to Campaign objectives and payable within a period of five years or less will count toward the campaign goal. There are many ways to make a gift:

Outright gifts include cash, check, or credit card. They are the easiest and most direct way to benefit the Garden, and are tax deductible to the full extent allowed by law.

Securities entitle you to a charitable deduction for the fair market value of the donated asset, and you may avoid paying capital-gains tax you would otherwise pay upon the sale of the appreciated securities.

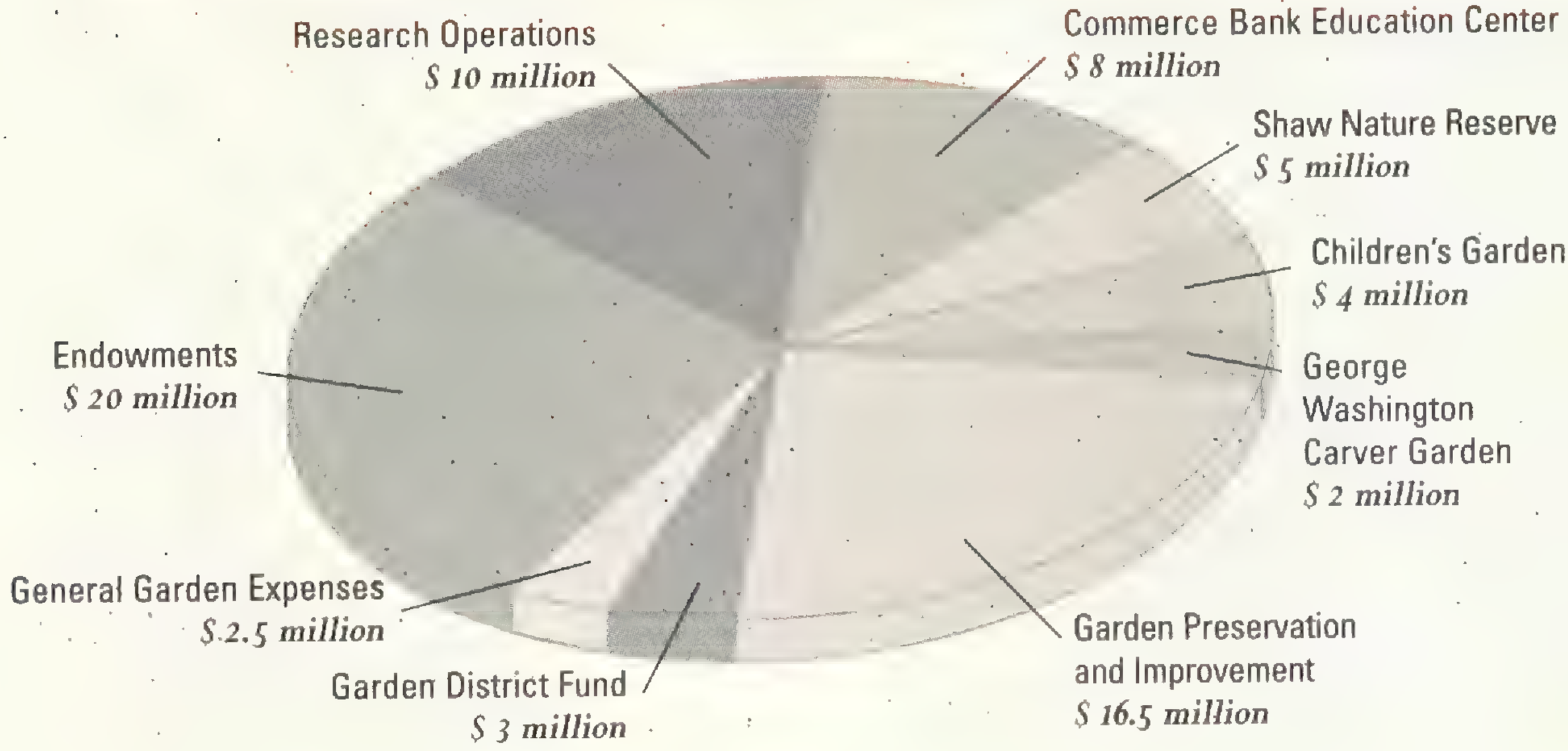
Planned gifts may allow a donor to make a sizable gift to the Garden and continue to receive income from the gift for his/her lifetime. It will also generate a charitable income tax deduction in the year of the gift.

Charitable bequests in your estate plans may be committed to the endowment objective of the Campaign, specified as a sum, a percentage, or in specific assets such as real estate. Such bequests are not subject to estate or inheritance taxes, significantly reducing the tax burden. The value of the bequest may be deducted when the taxable estate is determined, and there is no limit to the deduction.

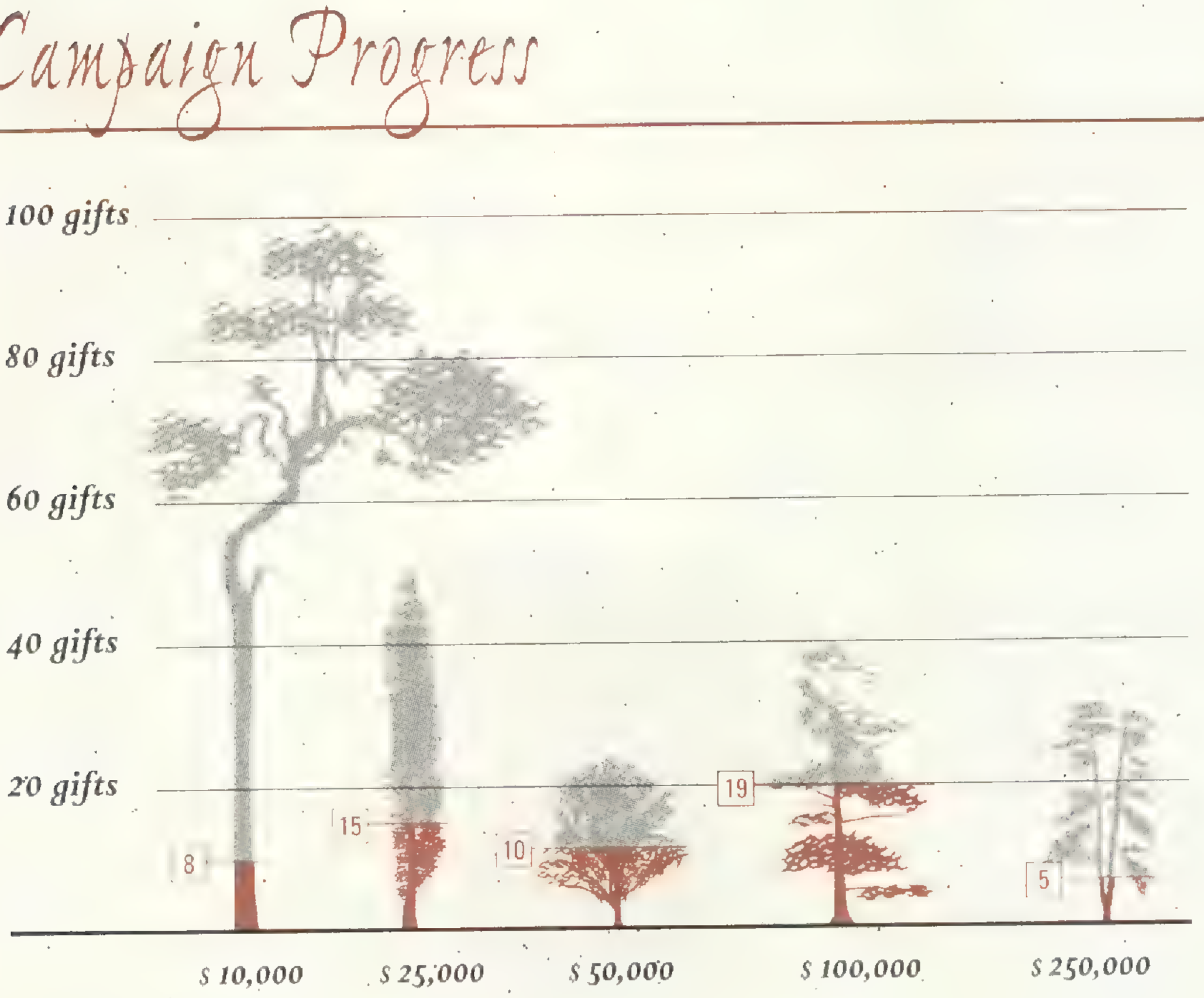
We recommend that all those considering a commitment to the Garden do so in consultation with his or her own legal or financial advisor. Donors should pay particular attention to annual deductibility limits to ensure maximum tax effectiveness of each gift.

For more information, please contact the Development Office at (314) 577-5120.

Campaign Goals



Campaign Progress



Stewards of the Earth

We are grateful to donors for their contributions to the Stewards of the Earth campaign for the Missouri Botanical Garden through May 31, 2004.

most distinguished benefactors
$10,000,000 or more

Mr. and Mrs. Jack C. Taylor

distinguished benefactors
$3,000,000 to $9,999,999

Commerce Bancshares, Inc.
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Lucy and Stanley* Lopata
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Drs. Patricia and Peter Raven
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Jane and Warren Shapleigh
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friends

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"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact her office at (314) 577-5120.

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LINNEAN

FROM THE KEMPER CENTER
FOR HOME GARDENING...

What to Do in the Garden this Month

July (all month)

Ornamentals: Perennials that have finished blooming should be deadheaded. Cut back the foliage some to encourage tidier appearance. Provide water in the garden for the birds, especially during dry weather. Remove infected leaves from roses. Pick up fallen leaves. Continue fungicidal sprays as needed. While spraying roses with fungicides, mix extra and spray hardy phlox to prevent powdery mildew. Newly planted trees and shrubs should continue to be watered thoroughly, once a week. Fertilize container plants every 2 weeks with a water-soluble solution. Keep weeds from making seeds now. This will mean less weeding next year. Keep deadheading spent annual flowers for continued bloom.

Vegetables: Blossom-end rot of tomato and peppers occurs when soil moisture is uneven. Water when soils begin to dry; maintain a 2–3 inch layer of mulch.

Fruits: Cover grape clusters loosely with paper sacks to provide some protection from marauding birds.

Turfgrass: Water frequently enough to prevent wilting. Early morning irrigation allows turf to dry before nightfall and will reduce the chance of disease.

Week 1

Ornamentals: Apply no fertilizers to trees and shrubs after July 4th. Fertilizing late may cause lush growth that is apt to winter kill. Hot, dry weather is ideal for spider mite development. Damage may be present even before webs are noticed. With spider mite damage, leaves may be speckled above and yellowed below. Evergreen needles appear dull gray-green to yellow or brown.

Vegetables: To minimize insect damage to squash and cucumber plants, try covering them with lightweight floating row covers. Remove covers once plants flower.

Fruits: Prune out and destroy old fruiting canes of raspberries after harvest is complete. Blackberries are ripening now.

Week 2

Ornamentals: Prune climbing roses and rambler roses after bloom. Apply final treatment for borers on hardwood trees. Spray hollies for leaf miner control. Plant zinnia seed by July 4th for late bloom in annual border. Fall webworms begin nest building near the ends of branches of infested trees. Prune off webs. Spray with B.T. if defoliation becomes severe.

Vegetables: Dig potatoes when the tops die. Plant fall potatoes by the 15th.

Fruits: Apply second spray to trunks of peach trees for peach borers.

Week 3

Ornamentals: Powdery mildew is unsightly on lilacs, but rarely harmful. Shrubs grown in full sun are less prone to this disease. Semi-hardwood cuttings of spring flowering shrubs can be made now. Summer pruning of shade trees can be done now.

Vegetables: Harvest onions and garlic when the tops turn brown. Keep cucumbers well watered. Drought conditions will cause bitterness. Sweet corn is ripe when the silks turn brown.

Turfgrass: Monitor lawns for newly hatched white grubs. If damage is occurring, apply appropriate controls, following product label directions.

Week 4

Ornamentals: Divide bearded iris now.

Vegetables: For the fall garden, sow seeds of collards, kale, sweet corn and summer squash as earlier crops are harvested. Set out broccoli, cabbage, and cauliflower transplants for the fall garden. Sow seeds of carrots, beets, turnips, and winter radish for fall harvest.

Fruits: Early peach varieties ripen now. Thornless blackberries ripen now.

For additional information on any of these topics, visit the Kemper Center for Home Gardening or check out our Gardening Help section at www.mobot.org.

August (all month)

Ornamentals: Deadhead annuals and perennials as needed. Continue spraying roses that are susceptible to black spot and other fungus diseases. Annuals may appear leggy and worn now. These can be cut back hard and fertilized to produce a new flush of bloom.

Vegetables: Compost or till under residues from harvested crops.

Fruits: Watch for fall webworm activity now. Cultivate strawberries. Weed preventers can be applied immediately after fertilizing. Prop up branches of fruit trees that are threatening to break under the weight of a heavy crop.

Week 1

Ornamentals: Feed mums, asters, and other fall-blooming perennials for the last time. Roses should receive no further nitrogen fertilizer after August 15th. Powdery mildew on lilacs is unsightly, but causes no harm and rarely warrants control, though common rose fungicides will prove effective. Madonna lilies, bleedingheart (*Dicentra*) and bloodroot (*Sanguinaria*) can be divided and replanted. Divide bearded Iris now. Discard old center sections, and borer damaged parts. Replant so tops of rhizomes are just above ground level. Divide oriental poppies now. Prune to shape hedges for the last time this season.

Vegetables: Broccoli, cabbage, and cauliflower transplants should be set out now for the fall garden.

Fruits: Thornless blackberries are ripening now.

Week 2

Ornamentals: If you want to grow big dahlia flowers, keep side shoots pinched off and plants watered and fertilized regularly. Evergreens can be planted or transplanted now to ensure good rooting before winter arrives. Water both the plant and the planting site several days before moving. Order bulbs now for fall planting.

Vegetables: Cure onions in a warm, dry place for two weeks before storing. Sow seeds of beans, beets, spinach, and turnips now for the fall garden. Spinach may germinate better if seeds are refrigerated for one week before planting.

Fruits: Protect ripening fruits from birds by covering plants with a netting. Spray peach and other stone fruits now to protect against peach tree borers. Fall-bearing red raspberries are ripening now. Sprays will be necessary to protect late peaches from oriental fruit moth damage.

Turfgrass: Apply insecticides now for grub control on lawns being damaged by their activity. Zoysia lawns can receive their final fertilizer application now.

Week 3

Vegetables: Begin planting lettuce and radishes for fall now. Watch for fall webworm activity now.

Fruits: Cultivate strawberries. Weed preventers can be applied immediately after fertilizing.

Turfgrass: Lawns scheduled for renovation this fall should be killed now. Have soil tested to determine fertility needs.

Week 4

Turfgrass: Dormant lawns should be soaked now to encourage strong fall growth. Verify control of lawn white grubs from earlier insecticide applications.

IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

July

Dahlias

Daylilies

Hydrangea

Sacred Lotus

Canna

August

Waterlilies

Butterfly Bush

Gladiolus

Sunflower

Mallows

PHOTO BY ALAN STENTZ

FEATURED PLANT OF MERIT

Cardinal flower

Lobelia cardinalis

A late summer bloomer, this Missouri native perennial grows typically in moist locations along water and in low wooded areas. It is somewhat short-lived, but the spikes of large, red flowers rising 2–3 feet attract butterflies and hummingbirds. Easily grown in rich, medium-wet to wet soils in part sun to part shade. Needs constant moisture. Divide clumps in spring as needed. May self-seed in optimum growing conditions. No serious disease or insect problems.

Plants of Merit™ are selected by Garden staff for outstanding qualities and dependable performance in the St. Louis area. View all current PMs on the website: www.mobot.org/gardeninghelp.

Garden Conservancy Open Days Tour

Saturday, September 11. 10 a.m. to 4 p.m.

The Garden Conservancy's Open Days program offers tours of eight private St. Louis gardens, including those of the directors of the Missouri Botanical Garden and Tower Grove Park. Admission to each garden is $5. No reservations required. Rain or shine. Purchase the Garden Conservancy guide in the Garden Gate Shop. Proceeds from the garden tour benefit the Missouri Botanical Garden and the Garden Conservancy.

Pick a Pepper

The Kemper Center for Home Gardening is featuring three sections of ornamental peppers this summer, all at peak display in July/August. Nine varieties are represented, with a few interesting beauties like 'Jigsaw' with its trendy variegated foliage, and 'Pretty in Purple' with large violet fruits. The different sections compare soil preparations: one unamended, one amended with worm castings, the third uses an experimental hair mat used in place of mulch.

THE PLANT SOCIETIES

This list is published twice a year in the *Bulletin* (Jan./Feb., July/Aug.). To change your listing, call (314) 577-0851 or email ellen.flesch@mobot.org. The most current information will be available year-round on the Garden's website: www.mobot.org.

American Orchid Society
(Mid-America Regional Judging Committee) David Brown, (314) 727-2385

Belleville Area Rose Society
Dennis Nelson, (618) 233-4609
homepages.ezeeweb.com/rosenut

Bonsai Society of Greater St. Louis
Bob Harris, (314) 352-0817, bobharris@accessus.net

Boxwood Society of the Midwest
Mary Clair Wenger, (314) 846-2834

Dahlia Society of Greater St. Louis
Ellis Evans, (314) 843-3767

Federated Garden Clubs of Missouri
Jan Merkle, (636) 227-9341
www.gardenclubsofmissouri.org

Gardeners of America (Ozark Region)
Russell McClellan, (314) 837-2470

Gateway West Gesneriad Society
Gary Dunlap, (636) 789-3604, patspets@jcn1.com

Greater St. Louis Daffodil Society
Jason Delaney, (314) 577-0234, jason.delaney@mobot.org

Greater St. Louis Daylily Society
Elaine Hogg, (314) 432-4206

Greater St. Louis Iris Society
Jim Morris, (636) 256-3927, morrisje1@aol.com

Henry Shaw Cactus Society
Pat Thomann, (314) 892-1123

Metro East Herb Club
Daphne Sumner, (618) 538-7739

Metropolitan St. Louis African Violet Council
Carolyn Burr, (636) 225-2559
www.avsa.org/LocalClubs.asp

Mid-America Regional Lily Society
Fred Winterowd, (314) 423-5313

Missouri Botanical Garden Daylily Society
Bill Lenz, (314) 487-6588, lobilllenz@juno.com

Missouri Mycological Society
Maxine Stone, (314) 963-0280, VeryMaxine@aol.com

Missouri Native Plant Society
George Yatskievych, (314) 577-9522, george.yatskievych@mobot.org
http://web.missouri.edu/~umo_herb/monps/

Missouri Orchid Society
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North American Rock Garden Society, Gateway Chapter
Sandy Evertowski, (314) 837-4841

Orchid Society of Greater St. Louis
Adrian Winheim, (314) 416-4578, alw9612@earthlink.net

Rose Society of Greater St. Louis
Robyn Wilkerson, (636) 225-3852

St. Louis Carnivorous Plant Society
Deborah Stopsky, sleepdreams@addlebrain.com

St. Louis Evening Herbalists
Linda Burke, (314) 961-4314, cleftstone@aol.com

St. Louis Herb Society
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St. Louis Horticultural Society
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St. Louis Hosta Society
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www.stlouishosta.com

St. Louis Water Garden Society
Joan Woelfel, (636) 394-6342, www.slwgs.org

Webster Groves Herb Society
Nancy Waddell, (636) 464-6085, petaledposes@aol.com

West County Daylily Club
Ms. Chick Buehrig, (314) 389-8261, buehrig31@aol.com

Wild Ones Natural Landscapers, St. Louis Chapter
Scott Woodbury, (636) 451-3512, scott.woodbury@mobot.org, www.for-wild.org

the website...www.mobot.org

Plant Finder: Cultural information on over 2,000 plants growing in the Kemper display gardens.

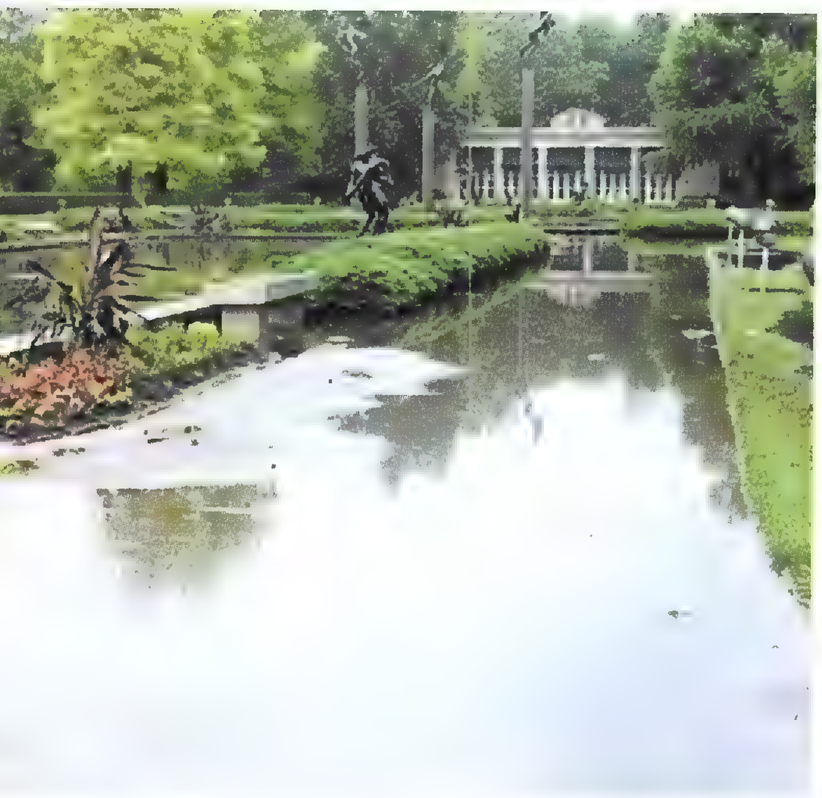
Find-A-Plant: Search the living plant database to find what plants are growing in the Garden and where.

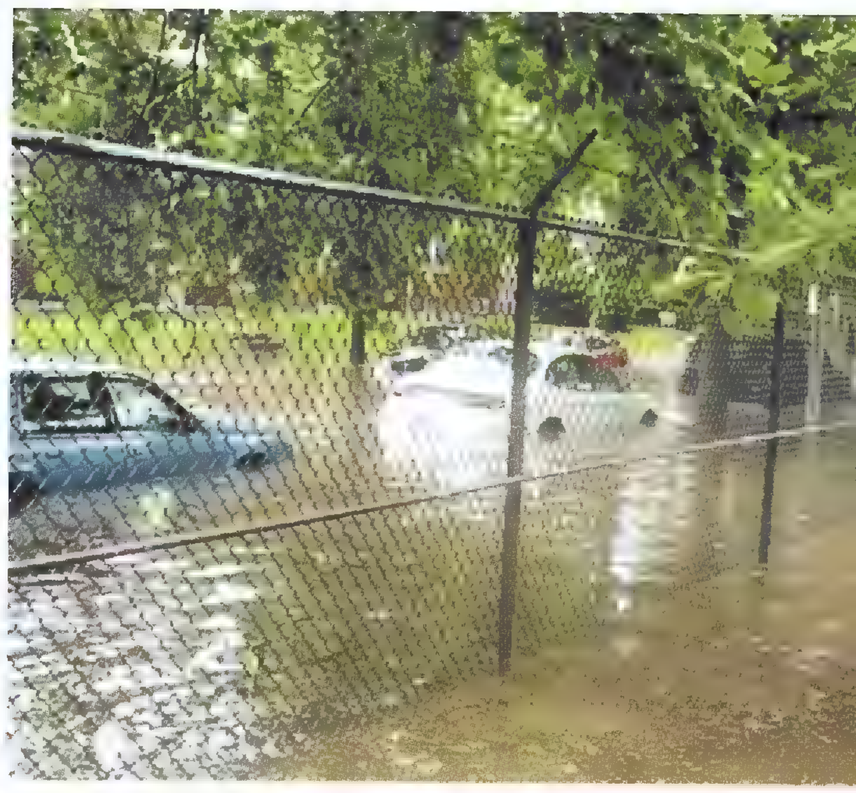
Gardening Help: Information on over 300 gardening topics, including all Hortline messages.

Integrated Pest Management: Diagnostic and control measures for nearly 100 of the most common insect, disease, and environmental problems encountered in Missouri.

Plants of Merit: Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

Plants in Bloom: Updated weekly at the Garden, along with current photos, updated biweekly.





Storm Watch 2004

A relentless series of late spring storms blanketed the St. Louis metro area the week of May 24, causing widespread hail and wind damage. The neighborhood witnessed flash flooding, including deep running water along Alfred Avenue and, at the Garden, a flooded central axis around the Climatron reflecting pools, the like of which had not been seen in recent memory.

Like many area homeowners, the Garden sustained some damage: glass broken by hail in the production greenhouses and the Linnean House, and loss of plant life—in all, a total of 15 trees and numerous shrubs and perennials. Garden horticulture and maintenance staff spent hundreds of hours in cleanup and removal, and then replacement where possible.

Perhaps the most notable loss occurred on the evening of Thursday, May 27, when the *ailanthus* across from the zigzag bridge in the Japanese Garden came down. *Ailanthus*, or "Tree of Heaven," is a commonly occurring weed tree, and the specimen dated to the North America Tract that stood here prior to the Japanese Garden. Japanese Garden designer Koichi Kawana kept the tree for its size—it was huge—and at least in part for its unique, two-dimensional growth pattern, spreading three trunks in the same plane like a fan, an appropriate backdrop to the garden's low plantings. The toppling is attributed to a weak and diseased root structure: the tree was in a steady decline and would likely have been removed in the next couple of years. Nonetheless, when it fell, it also destroyed a dogwood, a crabapple, a pine, a Japanese maple, and a bench in the Japanese Garden.

Above left: Rain fell so quickly on May 25 that the Garden's central axis between the Climatron and Spink Pavilion flooded; a "creek" of water flowed down the path to the Japanese Garden.

Center: Garden arborist Al Boefer works to remove the fallen Ailanthus *in the Japanese Garden. High winds during a storm on May 27 toppled the weakened tree.*

Right: Flash flooding at the gate on Alfred Avenue May 25. One car was reported to be "floating" on the street.

PHOTO BY JOSH MONKEN

Award-Winning Recycling

The Missouri Recycling Association has recognized the Missouri Botanical Garden's Plastic Pot Recycling Program, led by Dr. Steve Cline, as "Best Use of A Recycled Material" by converting tons of horticultural plastic into "lumber" sized for building raised garden beds and other construction projects around the home.

Now in its fifth year, this program is the only one of its kind to recycle both plastic pots and polystyrene cell packs and trays, and to convert the plastic into user-friendly garden kits. To date, this groundbreaking program has saved over 275 thousand pounds of plastic from the landfill through its weekend collections in June. In July, the collected pots will be processed into plastic planks by Environmental Recycling, Inc. here in St. Louis.

Plastic pot lumber will be available for sale to the public at cost in August. Download a specification sheet and price details at the Plastic Pot section of the Garden's website: www.mobot.org/hort/activ/plasticpots.shtml. For more information on sales of the kits and lumber, call (314) 577-9443.

This project is supported by St. Louis-Jefferson Solid Waste Management District and the Missouri Environmental Improvement and Energy Resource Authority.

A few of the over 1,500 daylily cultivars at the Garden.

DAYLILY DELIGHTS

That hardy garden perennial the daylily goes by the botanical name *Hemerocallis*, from the Greek words for "beauty" and "day," a reference to the plant's habit of opening each day a beautiful new bloom which closes and dies later that night. However, there are many flower buds on each daylily flower stalk, and many stalks in each clump of plants. The flowering period of a clump is thus several weeks long, and many varieties have more than one flowering period.

A member of the lily family Liliaceae, the genus *Hemerocallis* consists of 13–15 species of evergreen, semi-evergreen, and herbaceous perennials, from which over 30,000 cultivars have been bred. All wild species of *Hemerocallis* are native to Asia, mostly to the mountains and marshy river valleys and meadows of China, Korea, and Japan, where they have been cultivated for hundreds of years as food and medicine. In Chinese, the dried flower buds are called *gum-tsoi*, or "golden vegetable" or *gum-jum*, "golden needles," and are used in soups and stir-fries.

While the only original daylily colors were yellow, orange, and dull red, modern hybrids have a remarkably diverse color range, from shades of palest butter to pinks, purples, and melon. Hybridizers are actively working to develop the only missing colors: pure white and pure blue.

The daylily is sometimes referred to as the "perfect perennial" because it is available in so many shapes and sizes, able to survive with little care, and suitable to all types of landscapes, soil, and light. In addition, the plants are drought-resistant and have few disease or insect problems. This said, it is also possible to display truly spectacular daylilies with just a small amount of care.
Here are some simple guidelines for the St. Louis region.

Planting time. Plant after danger of frost and up to September 15.

Location. While some shade is acceptable, daylilies mostly prefer full sun.

Selection. Choose daylily plants that are right for your site. Although most will grow anywhere, for tricky locations, pick appropriate plants.

Preparation. Dig a big hole and refill with crumbly soil and plant food below root level.

Planting. Spread the roots out and plant so the crown is about one inch below ground level. Water in with a full dose of fertilizer.

Feeding. Work in a well-balanced commercial fertilizer in spring or at the beginning of bloom season.

Watering. For the most part, daylilies are very tough plants. Though they don't require much water, they will certainly bloom better and more abundantly with supplemental water during the spring and summer season.

Divide. Every 3–5 years, most daylilies will clump up and need to be lifted, divided, and transplanted—a nice opportunity to share the fruits of your labor with friends and fellow gardeners.

Mulch. A light winter mulching is recommended by the pros.

The American Hemerocallis Society website is a wonderful resource for interested gardeners (www.daylilies.org), as are the experts at the Kemper Center for Home Gardening.

Daylily Show & Sale

Saturday and Sunday, August 7 and 8, 9 a.m. to 5 p.m.

Because the Garden has been gearing up for the American Hemerocallis Society's national convention, this year's sale will be the biggest ever. Lasting two days, it will feature both greater quantity and varieties, but be forewarned: the crème de la crème go quickly. An early start is recommended. Visit the Garden's daylily collection now (when they are blooming) and make a list of your favorites, then bring the list to the sale. One hundred percent of the proceeds from the sale benefit the Garden.

Below: This spring the MBG Daylily Society donated funds for a new Cushman. From left: Bill Lenz, Jr., Chick Buehrig, Horticulture Director Shannon Smith, Marty Meagher, Lois Raley, and Carol Wrather.

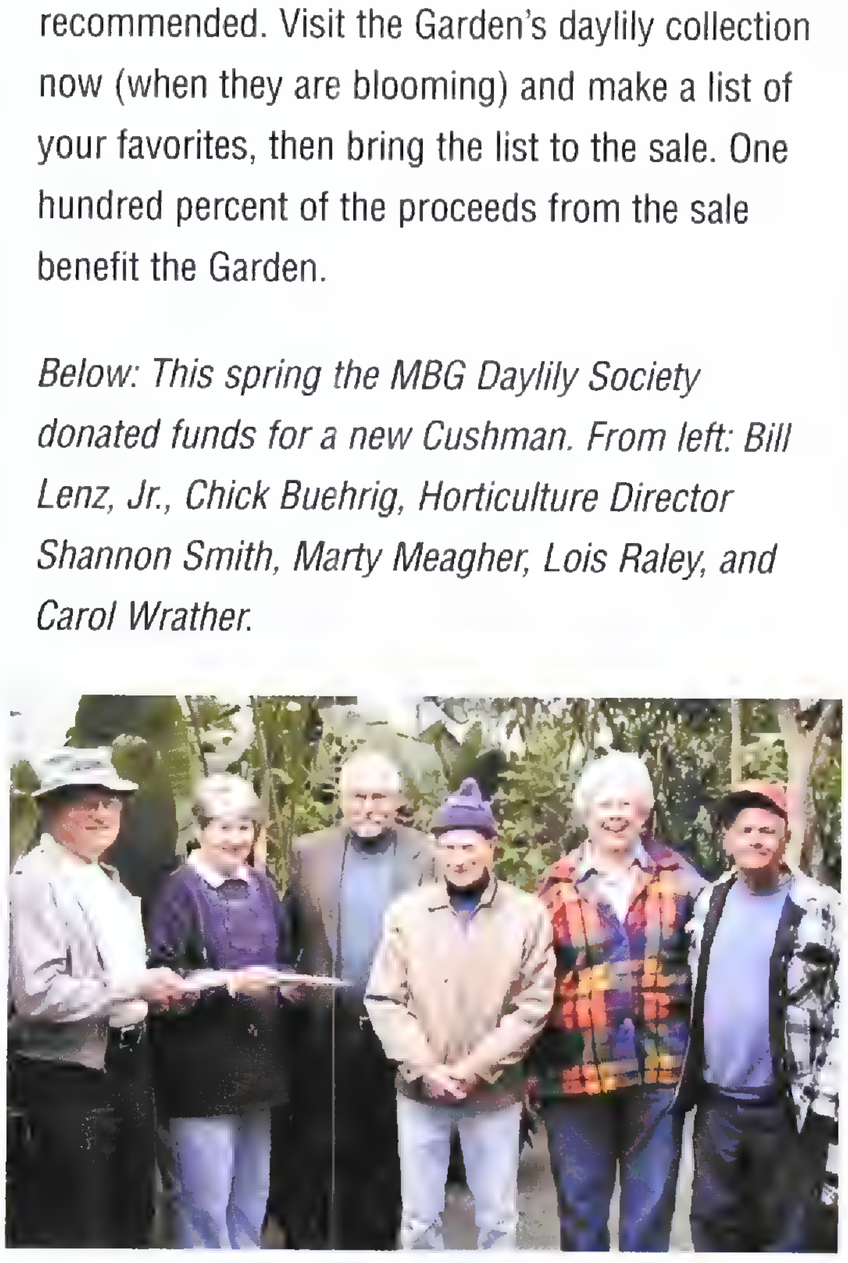


PHOTO BY TIM PARKER

Visitors stroll through the Jenkins Daylily Garden.

What's Newin the Garden?

With over 1,350 different hybrids in the Jenkins Daylily Garden alone, the Garden has just over 1,500 daylily cultivars on display. Every year, the Garden adds around 100 new plants, removing about the same number to keep the assortment fresh and interesting. Horticulturist **Jason Delaney** oversees the Garden's daylily collection—yes, the same Jason Delaney who handles bulbs and iris too. He's a busy individual, but took a few minutes to answer our questions.

What are the best areas to see daylilies in the Garden?

"Of course, the Jenkins Daylily Garden is the obvious choice, but the Kemper Center Demonstration Garden has a nice daylily display. Also there's a large collection just south of the English Woodland Garden."

What's new in the daylily gardens this year?

"The American Hemerocallis Society (AHS) is having its 2004 national convention in St. Louis this summer, so we've been amassing a great deal of new cultivars over the past few years in preparation. Our goal has been to have plants representing the major hybridists of today and yesteryear, and to have our various award collections complete. The AHS annually gives several awards, and we have all the awardees for 11 different nationally recognized competitions in our collection. We're probably the only public or botanical garden in the U.S. to have such a collection."

What's "hot" in daylilies now?

"Trends abound. Spider-flowering forms seem to be wildly popular with the hybridists, especially with sharks-toothed edging or doubled forms. True miniatures, higher bud count (thus longer bloom), and the quest for the ever-elusive 'blue' remain on the forefront of breeding trends. We're very excited to see the many new varieties from last year that will flower for the first time this season."

How do you do it all?

"I don't! The MBG Daylily Society is an in-house volunteer group that handles all aspects of the Garden's daylily collection. They raise funds to purchase new daylilies; plant and maintain the plants; divide and sell them at the annual MBG Daylily Sale; maintain the inventory and mapping; make all the labels and zinc markers; weed, mulch, and fertilize the beds; and daily remove the spent flowers during peak bloom. We couldn't do it without them!"

LILIES, AGAIN

Asiatic lily, Lilium *'Chianti' in the Heckman Bulb Garden.*

A rose is a rose is a rose, but lilies are a whole 'nother story. Many flowers called "lilies" are no such thing. For example, waterlilies (*Nymphaea*, Nymphaceae family), calla lilies (*Zantedeschia*, Araceae family), magic lily (*Lycoris*, Amaryllidaceae family), and torch lily (*Kniphofia*, Asphodelaceae family)

Others bearing the lily name, such as daylilies, are indeed members of the family Liliaceae and bear a resemblance, but are not so-called "true lilies," that is, members of the genus *Lilium*. True lilies grow from true bulbs: "underground storage organs comprised of concentric foliar scales." Daylilies, from crowned tuberous roots: "enlarged or swollen root system with a defined growing point on the top." Lilies also have leaves on the stems, while daylilies do not.

A true lily is never dormant, but must be treated as a living perennial plant. Lily bulbs may be kept in cool storage for a few months, but care must be taken to keep them moist. Lily flowers vary greatly in size, shape, and color, but always have six tepals and six anthers. There are approximately 100 species in the genus *Lilium* and virtually innumerable hybrids, so to keep them all straight, the Royal Horticultural Society has divided them into nine groups. Common and easily grown types in the St. Louis region are Trumpets, Asiatics, Orienpets (Oriental-Trumpet crosses), Longiflorum-Asiatics (LA's), and an assortment of species.

See lilies at the Garden in the Samuels and Heckman Bulb Gardens, throughout the Boxwood and Lehmann Rose Garden perennial borders, and especially this year in the Kemper Center Demonstration Gardens trial garden, where the Mid-America Regional Lily Society tends a knock-out bed. The North American Lily Society held its annual convention in St. Louis this June, and the Kemper Center bed was one of the highlights. A few words from Garden horticulturist **Jason Delaney** on the Garden's current lily display:

"There are lots of new Orienpets and LA's. Orienpets have the floral look and fragrance of Orientals, but the hardiness, vigor, and height of Trumpets. Many we grow can reach heights of 6 feet or more and are surprisingly more rabbit-proof, thanks to their woodier and tougher composition. Look for them in the bulb borders: they have ultra large, glossy green leaves that really add dimension to any display."

"The LA's are derived from crossing Longiflorum lilies (Easter Lilies, typically not hardy) with Asiatic lilies, resulting in a larger, tougher, and softer-colored Asiatic-looking lily, often with fragrance. They bloom about two weeks earlier than the regular Asiatics, further extending the season."

PHOTO BY BRYAN RECKAMP

HOLY LOTUS

Sacred lotus, Nelumbo nucifera *'Improved Egyptian Pink'*

A member of the Nymphaeaceae, or waterlily family, the Sacred lotus, *Nelumbo nucifera* is a rhizomatous aquatic perennial found in the wild around the margins of pools in southern Asia. It is sacred in Buddhism, a symbol of purity, arising from the muddy banks to unfurl a pure white or blushing pink bloom. Its brevity of flowering, a mere day or two, suggests the transitory nature of this world.

The Sacred lotus is an essential ingredient of any Japanese Garden for it its dramatic blue-green foliage, sometimes up to 3 feet across on stalks 6 feet long, spanning the seasons from late summer into autumn. Even the withered brown leaves in winter serve a purpose: to induce sadness in the viewer and a yearning for spring, according to the late Koichi Kawana, designer of the Missouri Botanical Garden's *Seiwa-en.*

Nucifera means "nut-bearing," a reference to the large central seed head, often seen in dried flower arrangements. The seeds are a popular snack in China, and the root is widely used in stir-fries throughout Asia. Both are held to have healthful properties in traditional medicine.

The lotus bed at the south end of the Japanese Garden lake was originally planted in 1977 and includes three cultivars: 'Empress,' 'Alba Plena,' and 'Improved Egyptian Pink.' The lotuses bloom for about a one-week period around Independence Day, perfuming the air with their delicate sweetness. It's well worth the walk!

Tips for home gardeners from the Garden's Sacred lotus caretaker, senior horticulturist **Scott McCracken**: "There are many varieties of Sacred lotus suitable for home growers. One cultivar in particular—'Dwarf Momo Botan'—while a bit hard to find, is compact enough to be grown in a barrel and still provide the beauty and fragrance people love about these flowers. Look for its signature small leaves." Visitors to the Garden may view the full-size version of 'Momo Botan' growing out in the Grigg Nanjing Friendship Garden and in the pool at the north end of the English Woodland Garden.

TRIBUTES

March—April 2004

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

in honor of

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Mrs. Frances J. Beezley

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Mr. and Mrs. Charles J. Cook

Mother of Holly Rose
Mr. and Mrs. Edward Weiss

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Miss Wanda Bowers

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Mr. Robert E. Hamilton, Jr.

PHOTO BY JACK JENNINGS

Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, at (314) 577-9455 for further information and a complimentary brochure.

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MEMBERS' ENTRY COURT

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from March 15, 2004 through May 15, 2004.

bronze signature bricks

Mary L. Burke
Peggy Gundlach

Jim Fournier
Mrs. Linda C. Fournier

Linda Fournier
Mrs. Linda C. Fournier

engraved clay bricks

Jerry and Joyce Beabout
Diana and Jeri Sue Beabout

Ted and Elsie Boente
Jan and Laura DeYoung

Carl and Norma Fitzwater
Norma Fitzwater

Vernon W. and Frances G. Haller
Ed and Betty Weber

Bridget Henderson
Joe and Shirley Henderson

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Nancy L. Belt
Sandra S. Hoffman

Nancy Deborah Linn
Christine and Robert Kremer

Mae and Lorie Meyer
Olive and Dolores Meyer

Lillienne Rene Ogier
Mr. and Mrs. Allen Ogier

Larry G. Putnam
Mr. Lawrence G. Putnam

Carole and Len Ritter Family
C. W. Ritter

Eva Schwider
Mr. Charles Accardi
Ms. Alice R. Giordano
Mr. and Mrs. John R. Graas
Margaret Hughes
Miriam Egner Johnson
Trudy D. Johnson
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Suzanne M. Klippel
Mr. and Mrs. Lambert Neighbour
ReHabCare Group, Inc.
Nancy Schwider
Dixie Shanklin
Laura Torbert
Linda Ward

Teri L. Stern
HOK Group, Inc.

Hildegard M. Twillman
Don Twillman

Poppies are blooming in the Garden as well as in the Garden Gate Shop! Let us help you with all of your entertaining. From bowls, chip and dip sets, and divided servers, the shop has lots of items to make your summer parties more festive.

Garden Gate Shop

4344 Shaw Blvd. • (314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

Special offers and events!

Artists of the Month:
July John Lautermilch
August Jim Teng

Food tastings every Wednesday, noon to 3 p.m. Members receive an additional 10% off food every Wednesday in July and August.

Trunk Shows, 10 a.m. to 5 p.m.

July 3–4	Silver Cat
July 10–11	Nancy Helmer
July 24–25	Del Sol
July 31–August 1	Zeeli
August 7–8	Pavla Rybar
August 14–15	Front & Center
August 28–29	Bee Clare

SALE **July 16** Members receive 20% off everything

Pat Scace, author of the *Floral Artist's Guide* will be signing copies of her book following the members' event. 11 a.m. to 1 p.m.

July 17 World's Fair Celebration, 11 a.m. to 1 p.m. Authors Sue Oertli, Diane Rademaker, Don and Lin Uetrecht, and Mike Truax will sign copies of their books about the World's Fair. The event will be accompanied by live Ragtime music from the Music of the1904 St. Louis World's Fair compact disc. Come to the Garden to get all your questions about the World's Fair answered by the experts!

July 17–25 Members receive an additional 10% off cactus, cactus soil, and cactus books

July 24 Don Kurz, author of the newly updated *Scenic Driving the Ozarks*, as well as *Ozark Wildflowers and Trees of Missouri*, will be signing copies of his books

July 28 Dale Rohman, "America's Flower Man"®, will sign *Fantastic Wreaths With Dale Rohman* after his 2:30 p.m. presentation "Flowers for Everyday."

August 1 Members receive an additional 10% off orchids, orchid pots, orchid soil, and orchid books

SALE **August 11** Members receive 20% off everything

August 20–22 Garden Gate Shop garage sale in Beaumont. Find bargains galore!

VOLUNTEER

PHOTOS BY DIANE WILSON

Back (from left): Ted Jansen, Kathy Nelson, Jan Hermann, Bruce Phillips. Front (from left): Marshall Magner, Mike Nelson, Garden Director Dr. Peter H. Raven, Don Reinkemeyer.

Volunteer Appreciation Evening

Over 1,254 volunteers contributed over 113,000 hours to the Garden in 2003—that's the equivalent labor of 57 additional full-time employees. On Thursday, May 20, the Garden celebrated this remarkably capable volunteer work force at the annual Volunteer Appreciation Evening, where guests were honored and thanked for their service, and five unique individuals were singled out for special awards.

Bruce Phillips received this year's Commitment Award for his tenacious dedication to decipher old labels and enter the data into the TROPICOS database as he systematically works his way through the herbarium, one family at a time.

Jan Hermann was honored with the Extra Service Hours Award for having contributed 1,225 hours this past year. She led the St. Louis Herb Society in their product development, sales, and public events. Jan also chaired the most successful Missouri State Master Gardener Conference.

Marshall Magner received the Lifetime Achievement Award for his exemplary service. After retiring as Senior Entomologist at Monsanto Company, he volunteered with the Horticultural Answer Service and was among those chosen to be in the first Master Gardener Class. He was also in the first group of Plant Doctors, where he continues even now.

Eastern Missouri Bee Keepers Association received the Organization Award for valuable assistance to the Butterfly House. The organization provided the bees for a display hive, as well as the replacement queens and workers, and enthusiastically helped educate the public.

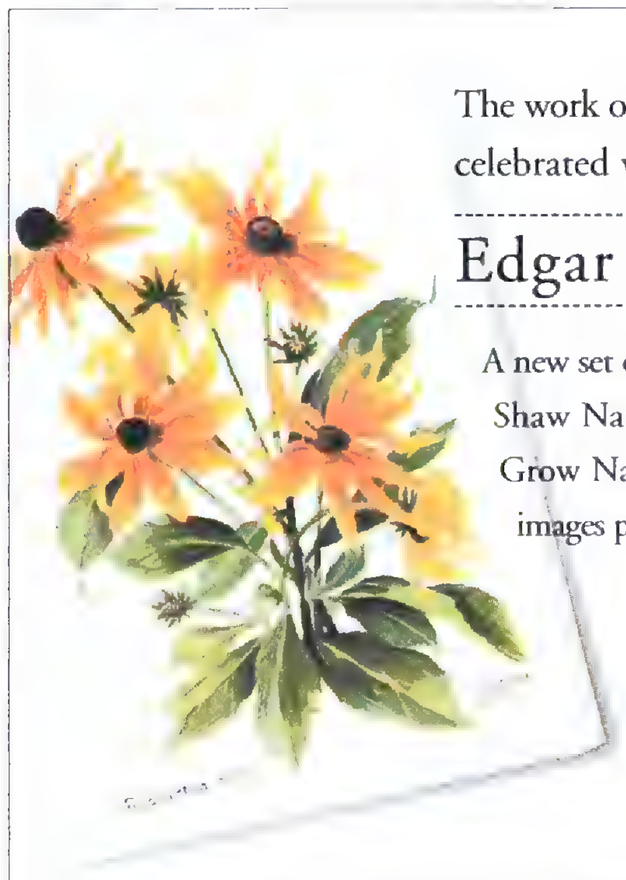
Mike and Kathy Nelson received this year's Special Achievement Award for their work with the Education Division and Public Events. They presented over 66 slide shows to nursing homes in the St. Louis and Illinois area in 2003. In addition, they work the Japanese Festival Tea Ceremony every year, actively brainstorming up better ticket sales procedures.

The Garden is deeply grateful to these special award recipients, and to the whole volunteer corps.

Thanks for another great year!

Make a difference...again!

Members of the Garden have already helped make a difference through their financial contribution, but you can make a difference again when you contribute your time as a volunteer. For information on the many and various opportunities awaiting you as a Garden volunteer, contact Jackie Juras at (314) 577-5187.



The work of Missouri's most celebrated wildflower artist

Edgar Denison

A new set of note cards from Shaw Nature Reserve and Grow Native! 10 assorted images per box for $11.00.

Available now at the Shaw Nature Reserve gift shop, the Missouri Botanical Garden Gate Shop, and Missouri Department of Conservation Nature Centers.

SHAW NATURE RESERVE
a division of the MISSOURI BOTANICAL GARDEN
P.O. Box 38 • Gray Summit, MO • 63039 • (636) 451-3512

GROW native!

KIDSTUFF

Signing up for the Carpool Extravaganza at Parkway North High is Hannah Moore. Behind the table are ECO-ACTors Cameron Turner, Lauren Keller, and Nicole Mangudo.

ECO-ACT-ion

What do high school research programs have to do with the "real world"? Well, for a group of Parkway North students, a lot! These participants in the Garden's ECO-ACT program were inspired by the results of their environmental issue investigation into local air pollution to found the Carpool Extravaganza, a movement to organize carpooling among students at their school. The team recruited and grouped 55 student volunteers for ridesharing to school each day. They designated group leaders and an efficient route for travel, then followed up to evaluate the success of the plan and participation rates.

"We've been learning all about the environment this year through ECO-ACT," wrote the group in their final presentation. "It feels good to know that we are helping, even if in a small way." ECO-ACT is an environmental leadership program for high school students in their sophomore, junior, or senior year. Participants in the program learn about environmental issues through a combination of outdoor adventures, local research, and experiential training, i.e., teaching a class of fourth graders the lessons they have learned.

Since 1981, more than 1,300 high school students and nearly 15,000 elementary students have participated in ECO–ACT. In 1983, the program was awarded the "Exemplary Science Program Award" by the National Science Teachers Assocation.

After the intensive three-week summer portion, students participate in monthly workshops and environmental investigations throughout the school year, culminating in a 20-minute presentation and planning and implementing an action plan to address the issue in some way.

For more information on ECO-ACT, please call (314) 577-9482.

A Wishlist for the Children's Garden

The new Doris I. Schnuck Children's Garden harkens back to history with a theme of Missouri Adventure. Designers plan to complete the historical atmosphere with the use of real objects, but we need your help. The following is a list of 19th and early 20th-century items sought. Won't you please consider this additional tax-deductible way to support the garden and see a little piece of your own history included in the new Children's Garden? For more information, call Children's Garden Coordinator Amy Haake at (314) 577-6397.

- Barns
- Barn siding
- Buckets
- Cabins
- Chandelier
- Chimneys (stone)
- Covered Wagon
- General store interiors: counters, shelves
- General store containers: tins, bottles, jars, barrels
- Iron fencing
- Jail cells
- Mining gear
- Padlocks, keys, shackles
- Silo
- Steamboat Paddle
- Survey equipment
- Victorian buggy
- Wagon wheels
- Water Tower
- Water Mill/ Water Mill wheel
- Watering cans
- Windmill
- Wood Stove: pot-bellied
- Wooden desk & chair
- Wood filing cabinet
- Wood lectern

It's the Buddy System

"Garden Buds" returns this fall with more fun opportunities for preschoolers and adults to explore together the beauty and natural wonders of the Garden. The new season starts in September and continues through May with a new class each month offered at three different times. New topics will include color-changing trees, the Japanese Garden, and dinosaurs in the Garden. Designed for three- to five-year-olds accompanied by an adult, classes cost $18 per child per session. Advance registration is required, so please call (314) 577-9506.

CALENDAR OF EVENTS

July

Now through Fri., July 9 "On the Wild Side" exhibition by John O'Dell. 9 a.m to 5 p.m. RC. At the Bascom House, 10 a.m. to 4 p.m., SNR.

Now through Sun., Sep. 12: "Blast From the Past!" See page 14. BH.

Thurs., July 1 & 15 "Camp Bug A Loo: Ladybugs." This new, nature-themed pre-school program is already sold out. Registration early for fall, call (636) 530-0076, ext. 13. BH.

Mon., July 5 to Fri., July 9 "Backyard Science Summer Camp." See page 15. BH.

Tues., July 6 "Gourmet in the Garden." See page 6.

Wed., July 7 Whitaker Music Festival: 80th birthday bash for Johnnie Johnson, 7:30 p.m. CA.

Mon., July 12 to Fri., Aug. 20
"Water Lilies" exhibit by John Lautermilch, and "Close Encounters of a Floral Kind" color photography exhibit by Stewart D. Halperin. RC.

Wed., July 14 Stamp Dedication Ceremony at the Climatron. See page 7. 11 a.m.

Whitaker Music Festival: The Bel Airs. 7:30 p.m.

Fri., July 16 **Members' Day: Floral Design Made Easy. See page 6. RC.

Fri., July 16 to Sun, July 18
Renewable Energy Open House Weekend at the EarthWays Home in Grand Center. $2 (free for Garden members). Call (314) 577-0220. 10 a.m. to 4 p.m. EH.

Tues., July 20 "Gourmet in the Garden." See page 6.

Sat., July 17 to Sun., July 25 Henry Shaw Cactus Society show and sale features hundreds of varieties of cacti and succulents from all over the world. Society members will be on hand to answer questions and encourage beginners. July 17: noon to 5 p.m. Otherwise, 9 a.m. to 5 p.m. RC. Don't miss the accompanying "Plants as Art" exhibit featuring rare beauties from the Garden's cactus collection usually hidden in the greenhouse.

Wed., July 21 Whitaker Music Festival: Gumbohead. 7:30 p.m. CA.

Thurs., July 22 "Art and Science: A Botanist's Eye," presentation by Barney Lipscomb, 1:30 p.m. Saint Louis Art Museum.

Sat., July 24 Henry Shaw's 204th birthday celebration. See page 7. 10 a.m. to 3 p.m. Garden grounds.

"A-MAZE-ing" Day. See page 15. 10 a.m. to 1 p.m. BH.

Wed., July 28 "Flowers for Everyday," a presentation and book-signing by Dale Rohman, author of *Fantastic Wreaths With Dale Rohman.* 2:30 p.m. RC.

Whitaker Music Festival: Lonesome Pines. 7:30 p.m. CA.

Sat., July 31 Greater St. Louis Iris Society sale. RC.

"Best Homegrown Tomato Challenge" sponsored by NatureSweet. See page 7. Registration at 10 a.m.; judging at 11:30 a.m. CA.

August

Now to Fri., Aug. 20 "Close Encounters of a Floral Kind" color photography exhibition by Stewart D. Halperin. RC.

Now through Sun., Sep. 12 "Blast From the Past!" exhibit. See page 14. BH.

Sun., Aug. 1 Orchid Society of Greater St. Louis auction. 11:30 a.m. to 5 p.m. RC.

Wed., Aug. 4 Whitaker Music Festival: Wil Maring and Shady Mix. 7:30 p.m. CA.

Aug. 5, 19, & 22 "Camp Bug A Loo: Bees." These new, nature-themed pre-school programs are already full, so be sure to register early for the fall session. Call (636) 530-0076, ext. 13. BH.

Sat. Aug. 7 to Fri., Sep. 3
St. Louis Blooms: Leapin' Lilies! See page 8.

Sat. & Sun., Aug. 7 & 8 Missouri Botanical Garden Daylily Society sale. RC.

Mon., Aug. 9 to Fri., Aug. 13 "Backyard Science Summer Camp." See page 15. BH.

Wed., Aug. 11 Whitaker Music Festival: Fanfare. 7:30 p.m. CA.

Wed., Aug. 18 Whitaker Music Festival: Mitzi MacDonald and Keltic Reign. 7:30 p.m. CA.

Missouri Botanical Garden Library
3 1753 00316 2226

Each year the Garden's signature holiday card features a peaceful image of scenic beauty. The 2003 card sold out before October, so this year we've printed more than ever. Place your advance orders by August 1 for cards to be delivered by the end of September. Commercial orders are available with custom imprint for quantities over 500. Boxes of 10 are $9.95. Email gateshop@mobot.org to place your order or call (314) 577-5137.

**** Thurs., Aug. 19** Members' Day: Bringing Nature Home. See page 6. RC.

Aug. 19 Evening at the EarthWays Home: Conversations on Pollution and Public Health. 7 to 9 p.m. Reservations required; call (314) 577-0220. EH.

Fri & Sat, Aug 20 & 21 Public Tours at the EarthWays Home in Grand Center. Tours at 10 a.m, 11 a.m., noon, and 1 p.m. $2 (free for Garden members). Call (314) 577-0220. EH.

Sat., Aug. 21 "Be A Butterfly." See page 15. BH.

Sun., Aug. 22 Greater St. Louis Daylily Society sale. RC.

Wed., Aug. 25 Whitaker Music Festival: The Poor People of Paris, featuring Elsie Parker. 7:30 p.m. CA.

Fri., Aug. 27 to Mon., Sep. 6
Japanese art exhibition. RC.

Sat. & Sun., Aug. 28 & 29 Gateway West Gesneriad Society show and sale. RC.

September

Sat., Sep. 4 to Mon., Sep. 6
Japanese Festival. See page 7.

Wed., Sep. 8 "Be A Butterfly." For information call (636) 530-0076, ext. 13. BH.

Sat., Sep. 11 Prairie Day: prairie heritage activities, guided hikes, entertainment, buffalo burgers, and more. 10 a.m. to 4 p.m. SNR.

the key

CA = Cohen Amphitheater	GGS = Garden Gate Shop	MC = Monsanto Center	SP = Spink Pavilion
CL = Climatron	JG = Japanese Garden	RC = Ridgway Center	** denotes a members-only event.
EH = EarthWays Home	KC = Kemper Center	SNR = Shaw Nature Reserve	$ denotes an additional fee.

All events are free with admission or membership unless otherwise noted.

To popularize less well-known areas or views of the Garden, we're featuring them on the Bulletin's *back cover.*

The Three Graces (1956), a 42-inch bronze by German artist Gerhard Marcks, first appeared at the Garden in 1965 as part of a sculpture exhibition. It was placed on loan in front of the Linnean House from 1973–1980, then moved to the fountain in the Gladney Rose Garden. In 1995, Mrs. Thomas S. Hall donated the sculpture in memory of her late husband, and it was moved to its current location in the north English Woodland Garden. It stands beside a pool of *Nelumbo nucifera* 'Momo Botan.' See page 25 inside for more on this genus.

contact information

Events hotline:	(314) 577-9400
Toll free 1-800-642-8842	
Garden Café:	(314) 577-5196
Daily, 9 a.m. to 5 p.m. (Wed. & Sat. from 7 a.m.)	
Garden Gate Shop:	(314) 577-5137
Daily, 9 a.m. to 5:30 p.m.	
Horticulture Answer Service:	(314) 577-5143
Weekdays, 9 a.m. to noon	
Main switch	(314) 577-5100
Children's Education:	(314) 577-5140
Communications:	(314) 577-0254
Composting Hotline:	(314) 577-9555
Continuing Education:	(314) 577-9441
Corporate Partners:	(314) 577-5113
Development:	(314) 577-5120
Facility Rental:	(314) 577-0200
Group Tours:	(314) 577-0275
Henry Shaw Society:	(314) 577-9495
Library:	(314) 577-5155
Membership:	(314) 577-5118
Planned Gifts:	(314) 577-9455
Senior Programs:	(314) 577-9506
Tribute Gifts:	(314) 577-0874
Volunteer Services:	(314) 577-5187

Garden family

Butterfly House: (636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017

EarthWays Home: (314) 577-0220
3617 Grandel Square in Grand Center, St. Louis, MO 63108

Little Shop Around the Corner: (314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110
Wed. through Sat., 10 a.m. to 4 p.m; Sun., noon to 4 p.m.

Shaw Nature Reserve: (636) 451-3512
Hwy. 100 & I-44, Gray Summit, MO 63039

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. (and Wednesday evenings in summer 2004). Parking is free.

Admission
- Free for members
- General admission is $7
  $3 for St. Louis City/County residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County residents.
- Children age 12 and under—free.
- Admission free to St. Louis City/County residents until noon every Wednesday and Saturday throughout the year, (except Chinese Culture Days, Japanese Festival, and Best of Missouri Market).
- Special events may require an additional fee.

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Missouri Botanical Garden

Bulletin

September/October 2004 Vol. 92, No. 5

Autumn Colors

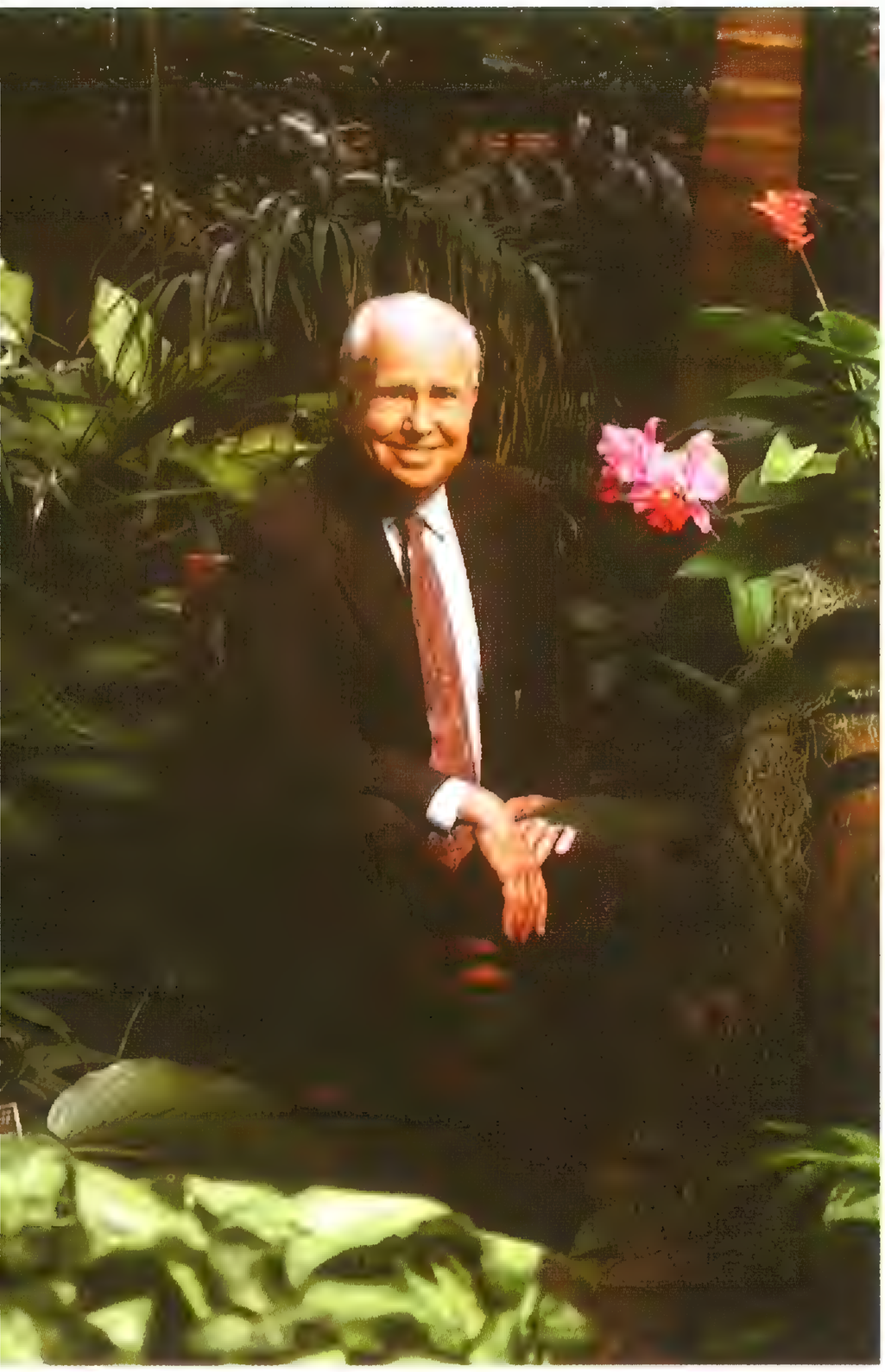

PHOTO BY PETER H. RAVEN

Henry Shaw's vision of the natural world was one of joint beauty and utility. He conceived of the Garden as both a place of beauty and a place of learning, where the "instruction of garden pupils shall be attended to."

...knowledge over and share knowledge
...about plants and their environment,
...in order to preserve and enrich life.

from the director...

Garden founder Henry Shaw's vision of the natural world was one of joint beauty and utility. He conceived of the Garden as both a place of beauty and a place of learning, where the "instruction of garden pupils shall be attended to." And so it is only fitting that we honor one of the greatest plant educators and innovators in the new George Washington Carver Garden, slated to open in 2006.

Carver's career as agricultural scientist, humanitarian, and early environmentalist exemplified the mission of the Missouri Botanical Garden—to discover and share knowledge about plants and their environment, in order to preserve and enrich life. I hope more of you, when you read about the man and his life, will be inspired to help the Garden achieve this major component of the Stewards of the Earth campaign.

The campaign continues to gather momentum. We have recently received a major gift from the Dana Brown Charitable Trust toward the Doris I. Schnuck Children's Garden, and we are very grateful to all the donors who have already made contributions.

The Sophia M. Sachs Butterfly House celebrates the biennial Wing Ding gala this fall. This year's event honors our very own Jonathan Kleinbard, who retired from his post as deputy director of the Garden in June. Tables are still available until October 2, so please consider joining us.

Finally, I'd like to welcome our new deputy director Robert J. Herleth, whose unique background in real estate, finance, and asset management, and deep understanding of civic and neighborhood issues, should serve him well in his new post.

Fall is a time of great beauty and fun festivals at all of the Garden's family of attractions; I hope to see you on the grounds.

Peter H. Raven, *Director*

Peter H. Raven

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editor's note

Fall got a head start this year. With July and August temperatures well below average, more people than ever visited the Garden to enjoy the water lilies, Whitaker Music Festival, or just walking the grounds in the decidedly non-sweltering air. Now it's time for autumn celebrations to heat up, and if the late summer was any indication, we're set to have a comfortable season of bold colors, food, fun, and festivities.

Japanese Festival transforms the Garden for three September days into one of the city's richest cross-cultural experiences (page 8). As we move into fall, why travel miles for gorgeous fall foliage when it's all here at the Garden? Learn how to keep your trees happy (page 22), then come to the Garden to celebrate our Autumn Colors in October (pages 12–13). Best of Missouri Market brings the best regional edibles and crafts to the Garden (page 9) for the thirteenth straight year. Members may enjoy a custom "color walk" at the Shaw Nature Reserve October 7, and we hope will return for down-home fun of Harvest Festival October 10. Here's another bright idea for young minds: Energy Festival at the EarthWays Home (page 14). It's all happening at the Garden's family of attractions this fall.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

PHOTO LIBRARY OF CONGRESS

George Washington Carver

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

The Missouri Botanical Garden is engaged in a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe. The campaign, which also targets support for the 79-acre St. Louis campus and the Shaw Nature Reserve in Gray Summit, already has raised in excess of $66 million and seeks an additional $5 million in private gifts by 2005. The funds will support Garden research, education, and the facilities required to enhance interpretation and display.

The Carver Garden: A Living Tribute

Dr. George Washington Carver is widely regarded as the most influential agricultural scientist of the 20th century, one of the most notable Americans of any century, and a timeless role model for future generations. The Stewards of the Earth campaign is seeking funds to construct this important new garden, where children and youth will learn principles of botany and also lessons from the example that Dr. Carver set for others. By lending your support to this project, you will perpetuate Dr. Carver's legacy of discovery and education to preserve and enrich life.

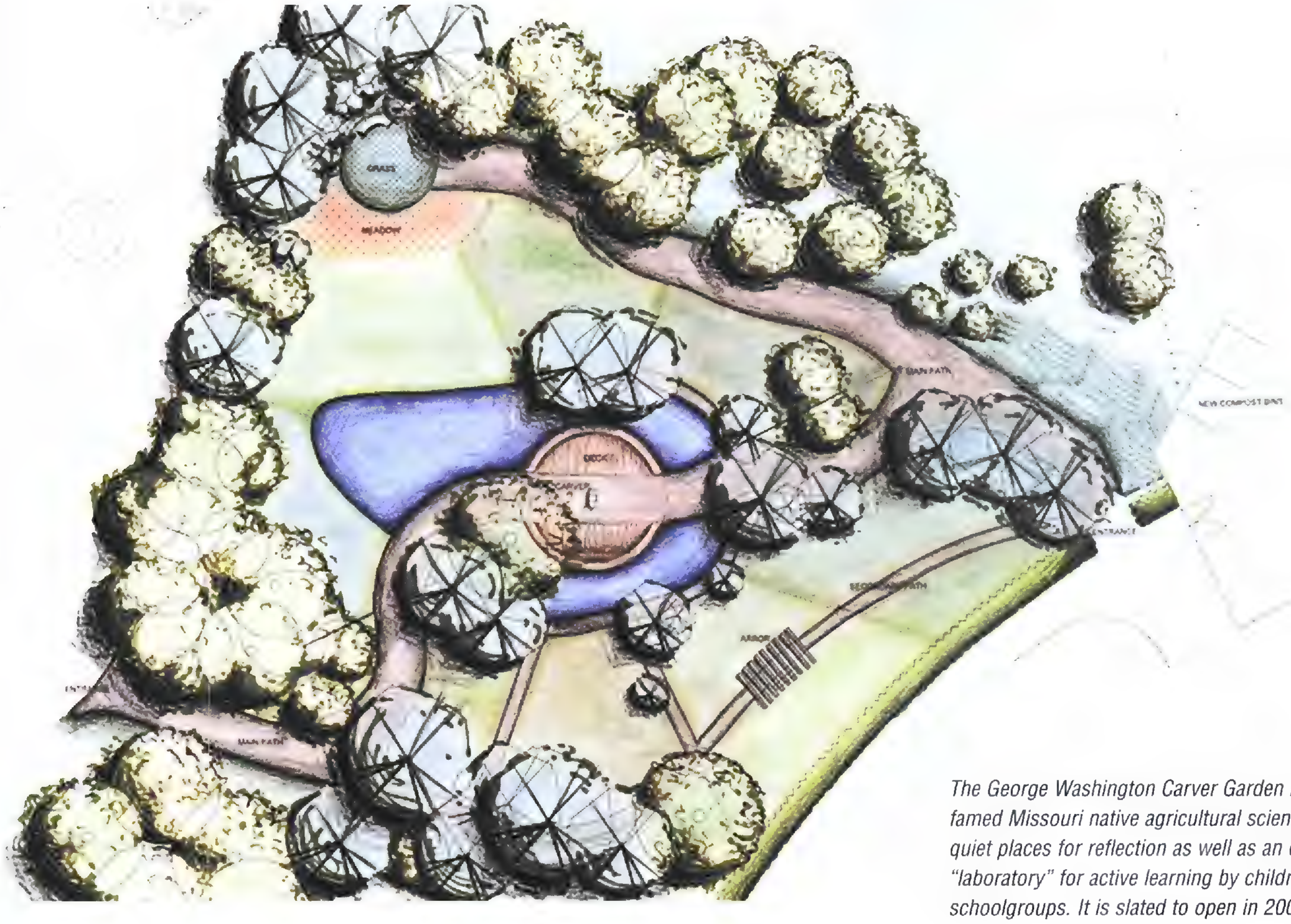
Scientist, Teacher, Humanitarian

George Washington Carver was born a slave in 1865, in Diamond Grove, Missouri. His interest in plants and nature developed so early that before the age of 12, he was known in the local farming community as the "Plant Doctor."

Orphaned as an infant, he left home at 12 years of age to attend school in nearby Neosho, having been barred from the local school because of his race. He was again rejected because of his race when he attempted to enroll at Highland College in Kansas in 1885. It was not until 1890 that he gained admission to Simpson College in Iowa to study art.

Despite his talent as an artist of nature, he followed the advice of one of his instructors and transferred to Iowa State University, as the first African-American student to enroll there, to study botany. He saw both beauty and utility in the natural world, and felt called to unlock nature's secrets for the benefit of humanity, especially those who suffered from rural poverty.

After earning his bachelor's and master's degrees at Iowa State, he joined the faculty at Alabama's Tuskegee Institute in 1896 and began a 45-year career that would establish him as one of America's greatest scientists, teachers, and advocates for productive, sustainable agriculture.



The George Washington Carver Garden honors the famed Missouri native agricultural scientist with both quiet places for reflection as well as an outdoor "laboratory" for active learning by children and schoolgroups. It is slated to open in 2006.

Witnessing the destructive effects of centuries of cotton farming on the South's natural resources, Carver found crops that would restore depleted Southern soils—notably peanuts, sweet potatoes, and black-eyed peas—and developed hundreds of applications for them that would increase their market value for impoverished farmers. He was an educator, writing more than 40 pamphlets, which he distributed free of charge, on topics such as "How to Build Up Worn Out Soils" and "How to Grow the Peanut and 105 Ways to Prepare it for the Table."

He also worked to develop industrial applications from agricultural products. He was responsible for the invention in 1927 of a process for producing paints and stains from soybeans, for which three separate patents were issued.

Dr. Carver became revered throughout the world as an accomplished scientist who devoted his work to common people and could communicate with them plainly. In his frequent speeches before large audiences of all races, he began to popularize concepts of environmentalism. When he died in 1943, he was regarded as an American genius and folk hero.

The addition of the George Washington Carver Garden creates the opportunity to renew Dr. Carver's legacy for thousands of visitors and students, and to provide a means for his accomplishments and values to influence new generations to become Stewards of the Earth.

A Place for Reflection and Learning

The plan provides for a garden of approximately 1.5 acres where plantings that represent Dr. Carver's contributions to agriculture, gardening, and botany will surround a small pond. Paths will meander through the plantings, converging at a wooden deck in the center of the pond. There, a circular bench will face a life-sized statue of Dr. Carver. Tina Allen, an acclaimed African-American sculptor, has created the cast bronze statue. The space created will accommodate quiet reflection on Carver's life and accomplishments, but will also serve as a learning laboratory for thousands of children and youth.

you can help!

PHOTO BY TRENT FOLTZ

The George Washington Carver Garden presents an opportunity to participate in building an asset for St. Louis that will sustain and enhance Dr. Carver's contributions to science, nature, and humanity. For more information, contact the office of the Director of Development, Patricia Arnold, at (314) 577-5120.

NEWS

PHOTO BY ELIZABETH MCNULTY

Robert J. Herleth, Deputy Director

New Deputy Director

The Missouri Botanical Garden is pleased to announce the appointment of Robert J. Herleth as deputy director. Herleth is a 24-year veteran of the St. Louis-based financial services firm A.G. Edwards and Sons, Inc., where he most recently served as Vice President, Manager of Campus Development.

"Bob brings to the position a keen interest in public policy, outstanding organizational and strategic planning skills, and superb analytic abilities," says Scott Schnuck, president of the Garden's board of trustees.

"We look forward to benefiting from his business acumen and his dedication to the goals and mission of the Garden," says Dr. Peter Raven, director.

Herleth has lived in the Shaw neighborhood near the Garden since 1976 and is past president of the Shaw Neighborhood Improvement Association. "I am tremendously excited about the opportunity to be part of both a world class institution and major St. Louis force and to positively impact redevelopment in my own backyard," said Herleth.

Herleth succeeds Jonathan Kleinbard, who served the Garden for seven years prior to his recent retirement to Philadelphia.

Corporate Partners

The Corporate Partners program strengthens the relationship between the Garden and the corporate community in the greater St. Louis region. Become a Corporate Partner today! For information, call Regina Faden at (314) 577-9513.

We are pleased to recognize our new or renewing corporate partners:

Underwriter Level ($5,000 to $9,999)
Atomicdust
Edward Jones
Union Planters Bank

Supporter Level ($1,000-$4,999)
CIC Group, Inc.
Laclede Gas Company
McCarthy Building Company, Inc.
The Private Bank
Stone Carlie & Company
Willaredt Acres, Inc.

An artist's rendition of the new Stribling Memorial waterfall on the Children's Garden Adventure Plaza.

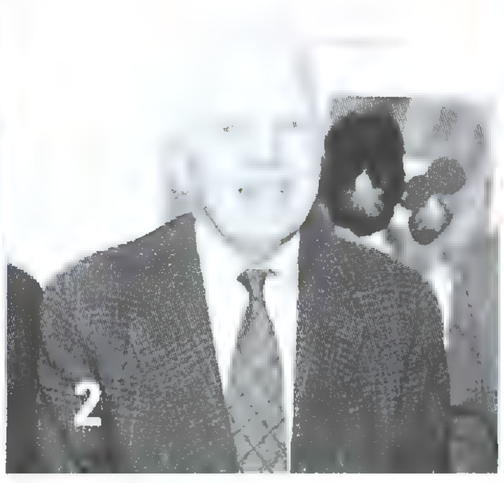
Stribling Memorial

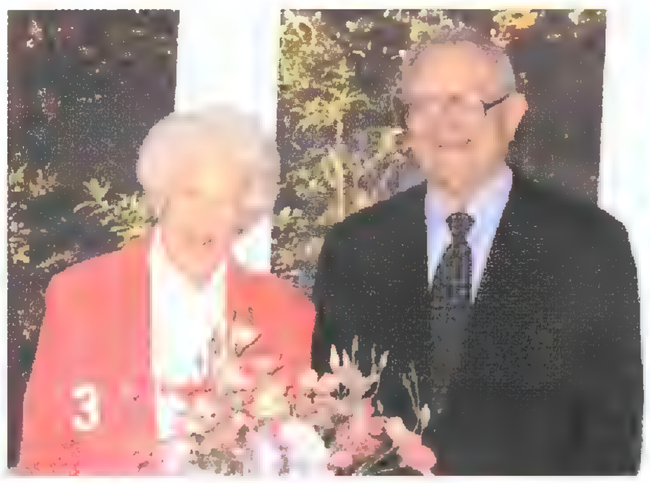
A familiar name will continue to me memorialized in the new Doris I. Schnuck Children's Garden slated to open in 2005. Frances Brightwell "Brightie" Stribling was a long-time supporter of the Garden and past president of the Members' Board, who passed away in 1976. A fountain on the west side of the Climatron first memorialized her in 1979, and the Stribling family has graciously agreed to allow planners to reinterpret it as a new and expanded feature—a welcoming waterfall and reflecting pool in the Children's Garden Adventure Plaza. "It's nice to know that her legacy continues," says G. Carroll Stribling, her stepson. "Brightie would be so pleased by the Garden's plan to engage children in the natural world."

Garden Gram

Garden members already receive the *Bulletin* as part of their benefits, but now you can receive an even more up-to-the-minute report via e-mail: the members' *Garden Gram*. E-mailed monthly, this new benefit contains links to interesting content on the Garden's new website, insider information about news and events at the Garden, as well as special offers in the Garden Gate Shop, Café, and more. To sign up, simply go to www.mobot.org/newsletter/signup.

Below from left to right: 1) Dr. Raven receives the Veitch Medal 2) Honored trustee Warren Shapleigh 3) Greensfelder Medal recipients Peg and Blanton Whitmire 4) Rivers of Color Garden unveiling as part of Shaw's Garden East.





Veitch Medal

On July 1, Dr. Peter Raven accepted the Royal Horticultural Society's 2004 Veitch Memorial Medal at a ceremony in London. The honor is bestowed annually to a select few "who have made an outstanding contribution to the advancement and improvement of the science and practice of horticulture." He was the only American among the six honorees this year, and was selected for his leadership in building the international renown of the Missouri Botanical Garden's botanical research division over his 33-year tenure.

Shapleigh Honored

On June 23, one of the Missouri Botanical Garden's longest serving trustees, Warren Shapleigh, was presented with a print from the *Banks' Florilegium* as recognition of his outstanding service for the last 46 years. Since 1958, Shapleigh's enthusiasm and unfailing support have helped the Garden achieve remarkable change and growth. As a member of the directorial Selection Committee in 1971, he played a key role in selecting Peter Raven to head the Garden and worked through the ensuing years to move the Garden forward to even greater prominence.

Greensfelder Medal

At the October 13 Directors' Associates and Heritage Society dinner, the Greensfelder Medal will be presented to Peg and Blanton Whitmire. Established in 1980, the Greensfelder Medal honors individuals who have made significant contributions to the landscape, garden and park planning, and design for urban improvement.

Members since 1974, the Whitmires have shared their love of nature and their abiding interest in preserving the heritage of Missouri's native wildlife and natural plant communities through their generous support of the Missouri Botanical Garden and Shaw Nature Reserve.

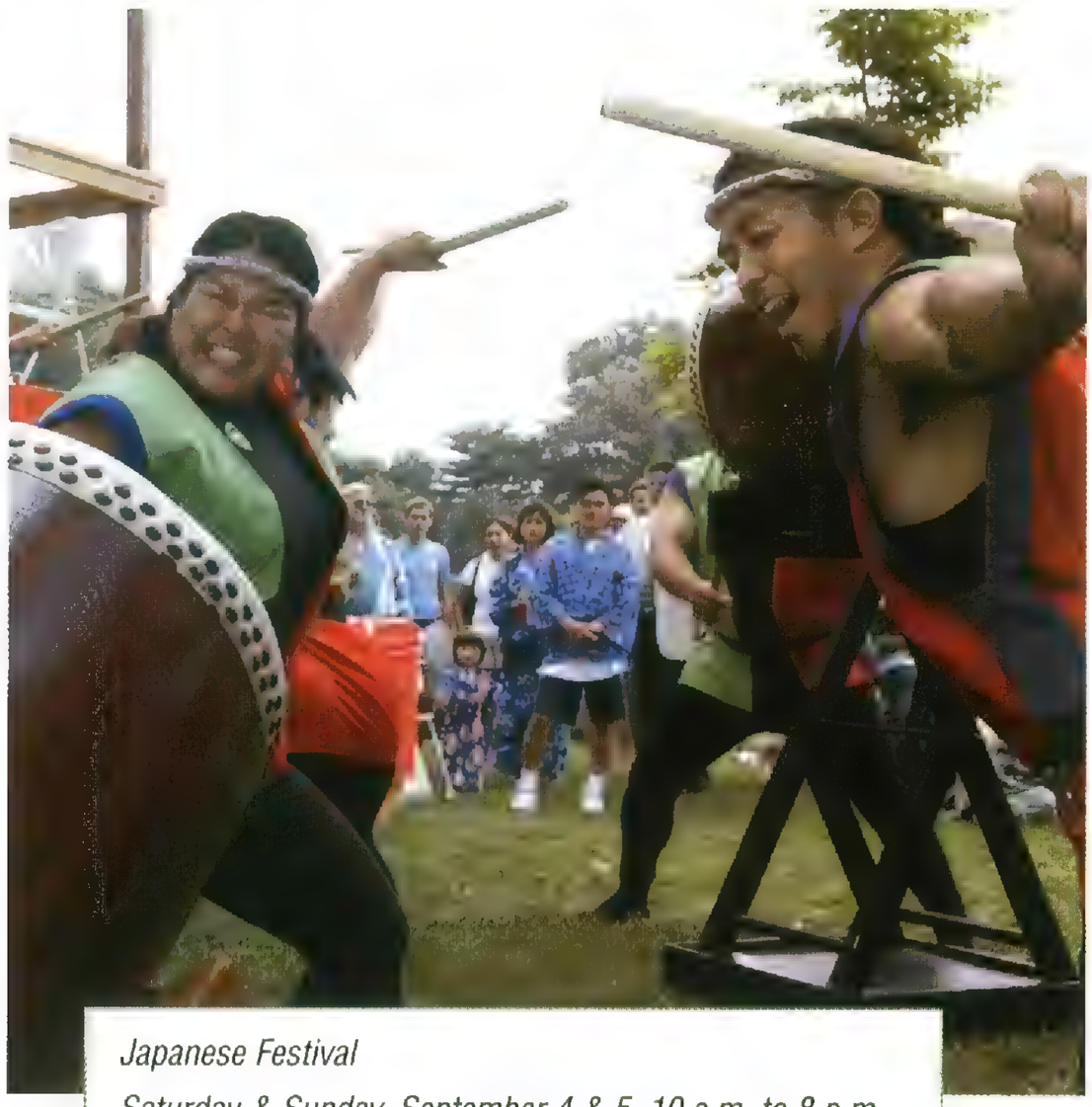
For his wife's birthday in 1988, Blanton funded the Whitmire Wildflower Garden. This five-acre installation is the largest, most extensive native plant garden in the Midwest and contains more than 800 species of wildflowers. By establishing this garden the Whitmires realized their long-time vision of making the state's natural heritage accessible to all.

Shaw's Garden East

On August 9, Lewis and Clark Community College in Godfrey, Illinois, celebrated their status as the first Missouri Botanical Garden "signature garden" and unveiled plans for the next stage in the Shaw's Garden East initiative. Made possible in part by a donation by Joan Sheppard, the Rivers of Color Garden on the campus will feature the statue *Crossroads* by Richard Hunt as its centerpiece. As part of the ceremony, Gary Rolfe, director of the National Great Rivers Research and Education Center, presented a check to Dr. Peter Raven to support the Garden's research on the Amazon watershed. The data collecteed internationally will be used as a model for planned research at th new Center being developed in Alton, Illinois. "The Missouri Botanical Garden is very pleased to be associated with the great beauty of this campus and the gardens being installed here," said Dr. Peter Raven. "We look forward to a long and rewarding relationship."

SEPTEMBER

PHOTO BY DIANE WILSON



Japanese Festival
Saturday & Sunday, September 4 & 5, 10 a.m. to 8 p.m.
Monday, September 6, 10 a.m. to 5 p.m.
$10 for adults ($7 seniors, 65+)
$3 for members and children age 12 and under

Japanese Festival 2004

Japanese Festival brings the ancient traditions and modern culture of Japan to the Missouri Botanical Garden on Labor Day weekend. Family favorites like the Candy Man and dashi wagon return, as do special events like the taiko drummers and tea ceremonies. Don't miss other highlights including:

Anime, Japanese cartoon animation, distinguished by stylized, doe-eyed characters and frenetic action. A full-length, action-adventure movie for adults will be shown Saturday night.

Koryu Bugei, a combative discipline that date back to the feudal period of Japan and was practiced by the samurai. The demonstrations at the Garden will be the largest presentation of these classical martial arts ever done in the U.S.

The 2004 festival theme is the pine, or matsu, a native tree cherished in Japan since ancient times as a symbol of endurance, longevity and utility. At *Seiwa-en*, the botanical garden's 14-acre Japanese "garden of pure, clear harmony and peace," pines are carefully pruned and trained to display their classic beauty to the fullest. Be sure to take one of the guided walking tours of this Zen-inspired masterpiece.

Download the complete Japanese Festival schedule from the Garden's website: www.mobot.org.

Shown left: taiko drummers perform at Japanese Festival 2003.

FOR MEMBERS ONLY...

PHOTOS BY JACK JENNINGS

Tour of the Victorian Area

Take a trip back in time to Henry Shaw's 19th-century garden. Learn more about the original Museum Building, Shaw's country home, the mausoleum, and the beautiful gardens surrounding these historical buildings. After a presentation, we will join members of the St. Louis Herb Society, the Tower Grove Historical Committee, and Garden Docents at these sites for a walking tour.

Victorian Tour
Tuesday, September 14, 11 a.m.
Ridgway Center

Turn a New Leaf: Fall Fashions and Tea

Join us for a lovely afternoon at the Garden. Enjoy a tea party with friends while you preview the latest fall fashions with informal tableside modeling courtesy of the Su-Ellen Shop. Attendance prizes will be awarded. Tickets are $20 per person to benefit the Tower Grove House. Sponsored by the Tower Grove House Auxiliary. Call (314) 577-5154 for reservations.

Fall Fashion Tea
Friday, September 17, 1 to 3 p.m.
Ridgway Center

Fall Color Prairie Walk

Enjoy the splendor of autumn at the Shaw Nature Reserve. Tour the Dana Brown Overnight Education Center—a complex of restored log cabin buildings used as an overnight educational facility—and then depart on an easy 1½-mile hike. The Wilderness Wagon will be available for those who do not care to walk. Light refreshments will be served in the Assembly Building afterward.

Fall Color Walk
Thursday, October 7, 11 a.m.
Shaw Nature Reserve

OCTOBER

PHOTO BY DIANE WILSON

13th Annual
Best of Missouri Market
Saturday and Sunday,
October 2 and 3,
9 a.m. to 5 p.m.
7 a.m. Saturday "early bird"
shopping for members only
Admission: $8 adults
($6 seniors, 65+); members $3.
Children 12 and under are free.

Best of Missouri Market 2003 shoppers select from displays of decorative floral and produce arrangements.

Best of Missouri Market

Best of Missouri is better than ever with over 120 new and returning vendors. From familiar favorites to cool new stuff you can't find anywhere else, the Best of Missouri Market provides fresh food, family fun, and abundant early holiday shopping. Bring your friends and family for a weekend's dining and adventure, as you discover the best arts and crafts and foodstuffs the region has to offer.

Just for members... On opening day, members enjoy early bird shopping privileges and will be admitted to the Market at 7 a.m., two hours before non-members. Get first crack at the freshest items before the crowds descend. Early bird refreshments courtesy of Great Harvest Bread, Ronnoco Coffee, and Coca-Cola.

Access Enter at Spink Pavilion on Tower Grove Avenue or at the main entrance off Shaw Boulevard. Additional parking will be available in Tower Grove Park and a continuous shuttle will run to both entrances.

Homegrown tunes Enjoy the best of local family favorites on Spoehrer Plaza. Mick Byrd plays Americana roots music on Saturday and Sunday, 11:30 a.m. to 1:30 p.m. Raven Moon performs bluegrass and folk on Saturday and Sunday, 2 to 4 p.m.

Cookout at Kemper Straub's Markets present cooking demos with celebrity chef David Hahn on Saturday at 11 a.m. and 2 p.m. Enter a drawing to win a gift basket filled with Missouri products at each demonstration. On Sunday, KEZK morning show personality Ed Goodman cooks at 1 p.m.

Kids' Corner Kids can decorate a pumpkin, build a project at the Home Depot Kids' Workshop, pet exotic animals from Grant's Farm, see farm animals from the UM–Columbia College of Agriculture, Food, and Natural Resources, decorate hats, create jewelry, and more. On Saturday be sure to see the Anheuser-Busch Clydesdale between noon and 1:30 p.m. Face painting both days, Saturday, 11 a.m. to 1 p.m. and Sunday, noon to 2 p.m.

Special thanks to our lead sponsor Schnuck Markets, Inc.

Sponsored by Central States Coca-Cola Bottling Company, Commerce Bank, Edward Jones, and Enterprise Rent-A-Car. Media sponsorship by KMOX-AM Radio.

Thanks to the Girl Scout Council of Greater St. Louis, Fabick Power Systems, The May Department Stores Foundation through the generosity of The May Department Stores Company and its Famous-Barr, Lord & Taylor, and David's Bridal divisions, Sachs Electric Company, and Spicer's 5 & 10 Inc.

MORE TO DO

PHOTO BY GLENN KOPP

Ninety-nine classes are available this fall through the Kemper Center's Adult Education Program—everything from drawing and painting to home gardening to cooking and wine. Sign up today!

Fall Catalog

By now, members should have received their new Adult Education catalog in the mail, but if not, check out the classes online at the Garden's website: www.mobot.org/gardeninghelp. Members receive discounts on all classes of up to 20%. For more information, call (314) 577-9441.

Back to School

It's fall, and that means back to school time. Creative home gardeners can go back to school too, with the Kemper Center's adult education programs. Create a beautiful hand-painted wineglass, carve a wooden print block, or learn tips for a trendy new rain garden at one of 40 new class offerings at the Missouri Botanical Garden this fall. Registration is now open for 99 adult classes and tours, from arts and crafts to cooking to gardening.

Classes abound for home gardeners to advanced levels and professionals. Bring pictures of your home garden to the multisession "Home Landscape Design," where you will gain knowledge about various types of plantings and develop a landscape plan for your space. "Perennials for Rain Gardens" offer perfect solutions for moist areas that will help control erosion from storms.

The Garden's top experts make the tough stuff easy for beginners. Bring your budding green thumb to "Growing Orchids," a class taught by Garden orchid expert Babs Wagner specifically for the novice. Even armchair horticulturists will appreciate "Amazing Plant Facts and Stories," where master gardener Alan Stentz shares intriguing plant facts that he learned while researching over 3,000 plants for the Garden's PlantFinder online service.

Some classes take you behind the scenes, such as the library/herbarium tour, the evening walk in the Japanese Garden, or the various overnight adventures at the Shaw Nature Reserve. Others may spark your creativity, such as various candle-making, drawing, and painting classes. Then there are the cooking and wine classes, such as a new offering on Missouri vintages, or the special-event cookery "A Gourmet Holiday Meal for a Crowd."

Whatever your interests, there are fun classes for you this fall at the Garden and surrounding locations. Classes take place on Garden grounds in St. Louis, at the EarthWays Home in midtown, at Shaw Nature Reserve in Gray Summit, at the Daniel Boone Library in Ellisville, and at Lewis & Clark Community College in Edwardsville, Illinois.

Fall classes are held from August 30 through December 11. Fees range from $20 to $60 for single session classes and many cost just $25. Multiple session class fees range from $120 to $280. Missouri Botanical Garden members receive a discount.

PHOTO BY MAX GOLDSTEIN

Flower-lined path to the Director's house

Garden Conservancy Open Days Tour

Saturday, September 11, 10 a.m. to 4 p.m.

This year's Garden Conservancy Open Days program features a very special treat for all you Garden members who have wandered the grounds and wondered about that lovely fenced yard across from the Strassenfest German Garden. In addition to seven fantastic private St. Louis gardens, including that of Tower Grove Park director John Karel, the Open Days program this year includes tours of the private garden surrounding the residence of Drs. Pat and Peter Raven in the southeast corner of the Garden. Admission to each garden is $5. No reservations required. Rain or shine. Purchase the guide in the Garden Gate Shop. Proceeds from the tour benefit the Missouri Botanical Garden and the Garden Conservancy.

PHOTO BY DIANE WILSON

A Very Special Evening

Plans are underway for the elegant annual dinner to honor the Director's Associates and Heritage Society members. Director's Associates support Garden programs with an annual membership gift of $500–$999. Heritage Society members have included the Garden in their estate plans. Both of these groups provide vital support to help carry the Garden's mission into the future. To join this special group and receive your invitation to a very lovely evening, call (314) 577-9455.

Director's Associates Dinner
Wednesday, October 13, by invitation only
Ridgway Center

Gourmet in the Garden

"Gourmet in the Garden: Wild Game Dinner." Dine on pheasant ravioli, venison and blueberry sausage, pancetta-stuffed rabbit, spinach and mushroom pudding, brussel sprouts and wild berry trifle. Cocktails and guided tour of the Climatron, 6 p.m.; dinner in Spink Pavilion, 7 p.m. $85 per guest. Limited seating. Reservations are required; call (314) 577-5154.

Gourmet in the Garden
Tuesday, November 9 and 16, by reservation only
Spink Pavilion

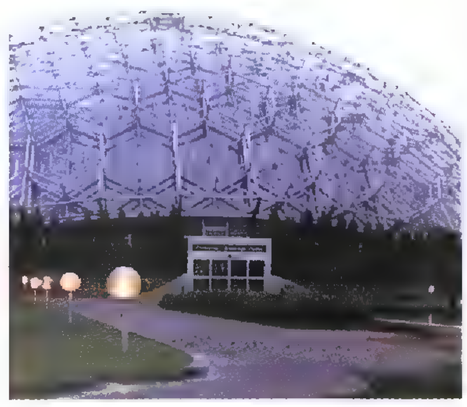


PHOTO BY ELLEN FLESCH

Climatron conservatory at dusk.

PHOTO BY DIANE WILSON

Bricks commemorate special family events and special people. All brick donors are invited to an annual party in September.

Ten Years of Bricks

This year's brick donor reception is bigger and better than ever, as we celebrate the tenth anniversary of the brick program that has filled the Members' Entry Court at the Kemper Center with nearly 3,000 personal commemorations. Music, lemonade, and cookies will be part of this special event, and everyone who has purchased a brick in the Members' Entry Court over the past ten years will be invited. Don't be left out: order your brick today. Please note bricks ordered after September 1 may not be installed by September 19. All brick donations support the Missouri Botanical Garden.

Engraved clay bricks ($300)
Bronze signature bricks ($1,000)

Payments may be made by cash, check, or MasterCard/Visa. Order forms are available at the Membership Services Desk in the Ridgway Center, the Kemper Center for Home Gardening, or on the website at www.mobot.org. For more information, call (314) 577-0874.

Brick Party
Sunday, September 19, 11 a.m. to 5 p.m.
Members' Entry Court at Kemper Center

AUTUMN COLORS

ST. LOUIS BLOOMS!

The Garden returns to its "roots" this year, celebrating the changing seasons of St. Louis's best horticultural display. From the first bursts of bulb-beautiful spring, to the long-running rainbow of roses starting in May, waterlilies in late summer, and chrysanthemums and leaf color in fall, the Garden is where St. Louis really blooms!

Autumn Colors
Saturday–Sunday, October 16–17
tours at 10 a.m., noon, and 2 p.m.
educational activities for kids 10 a.m. to 3 p.m.

PHOTO BY JACK JENNINGS

ST. LOUIS BLOOMS: AUTUMN 2004

"A tree is an object which has, at all periods, been held in…admiration by mankind, from its grandeur, its beauty, and its usefulness," wrote Garden founder Henry Shaw. To Shaw, trees were not only a hallmark of civilized society and a necessary commodity for westward expansion, but also a source of great pleasure. "We pity the man who displays no fondness for trees," writes Shaw. "[H]e is robbing himself of one of the greatest sources of enjoyment that nature has placed within the reach of human kind."

Shaw loved trees, and under his direction, close to 20,000 of them were planted at the Missouri Botanical Garden and Tower Grove Park. So why drive hundreds of miles to see fall colors when a spectacular show of fiery red, awesome orange, and blazing gold is as near as the Garden? This fall, we celebrate Autumn Colors, four weeks heralding the peak of fall hues, with a free, self-guided tour of the Garden's trees, many of them historic, and a variety of fun fall-ish activities for the whole family.

The event takes place during the projected peak color weekend of Saturday and Sunday, October 16 and 17 with a series of special "tree talks" led by the Garden's senior horticulturist and arborist Alan Boefer. (Check out his tips for happy trees on page 22.) Kids will enjoy educational activities designed to foster little green thumbs and make a craft to take home. Be sure to check out the squash display at the Kemper Center, and then visit the Garden Gate Shop for some early holiday shopping. Fall is in the air during Autumn Colors at the Garden…

Why the leaves turn…

Changing autumnal leaf colors are the result of a complex series of interactions involving daylight, moisture, temperature, location, and pigments. Ideal conditions for fall color include cool, but not freezing temperatures, mild late-season drought, and sunny days. Peak foliage viewing in the region usually runs from late September to late October.

Leaves are green because of the formation of chlorophyll, a pigment that enables the production of food for the plant via the process of photosynthesis. Yellow and orange pigments (called carotenoids) are also present in the leaves, but masked during the growing season by the greater amounts of green pigment. Dropping temperatures and shorter days result in a rapid breakdown of chlorophyll, revealing the brilliant yellows and oranges seen in Missouri hardwoods like hickories and birches.

While carotenoids are always present, other pigments don't develop until the onset of lower temperatures. Anthocyanins develop late in summer and result in brilliant red and purple leaves (if the tree's sap is acidic or alkaline, respectively). These pigments are most frequently seen in persimmons, dogwoods, maples, sumacs, sweetgums, and ashes.

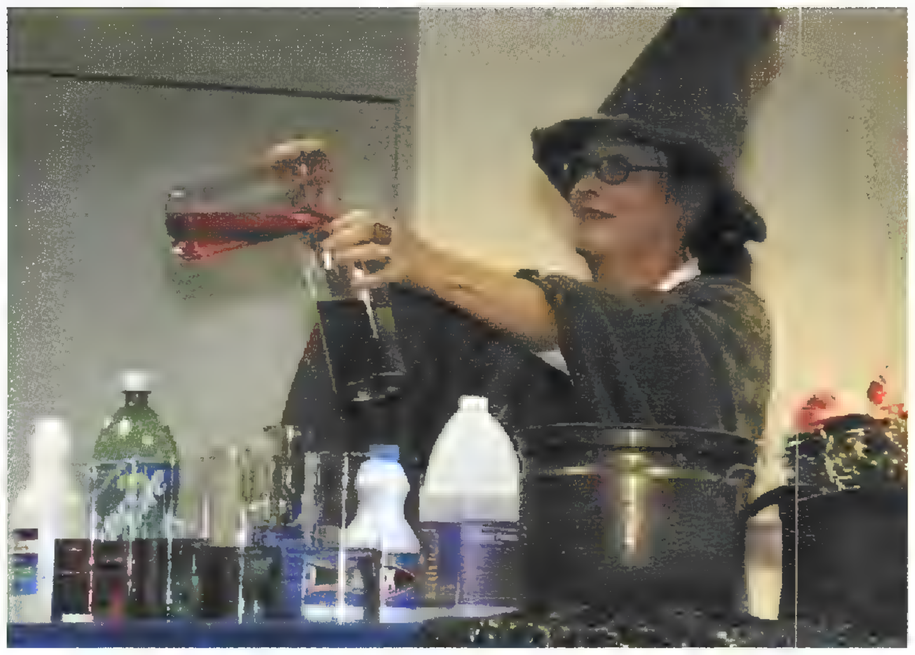


PHOTO BY DIANE WILSON

Garden Headmistress Amy Haake mixes plant potions during Wizard Weekend 2003.

Halloween Wizard Weekend

Soaring owls and disappearing rabbits, magical plants and wondrous wands…it's Wizard Weekend at the Missouri Botanical Garden! Young guests are encouraged to wear their Halloween costumes and join in the fun inspired by a famous bespectacled British boy wizard. Can owls deliver mail? Find out as creatures like the barn owl and Eurasian eagle owl from the World Bird Sanctuary take flight. A magician will perform throughout the day, and children can fashion a wizard's cape and wand, learn about plant science and herbology, examine the physics of a broomstick flight, create "slime," and more. All activities are free for Garden members, who also receive an additional 10% discount on children's games and toys in the Garden Gate Shop. Prizes will be given for best costume (both children and adults). The Saturday Story Time at 1 p.m. will feature excerpts from *Harry Potter and the Sorcerer's Stone.*

Wizard Weekend
Saturday & Sunday, October 30 & 31
11 a.m. to 3 p.m.
Ridgway Center

Squash Court

PHOTO BY JACK JENNINGS

At Best of Missouri Market (October 2–3), the Members' Entry Courtyard at the Kemper Center for Home Gardening becomes a cornucopia of squash, pumpkins, and gourds. Over 100 varieties from The Great Pumpkin Patch in Arthur, Illinois, will be on display this fall, from Amish Pie and the Blue Banana to Yugoslavian Fingers and Zapalla Plomo. To see last year's squash display, check out www.mobot.org/gardeninghelp.

GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

PHOTO BY DEB CHOLLET

PHOTO BY DALE DUFFER

Above: 1.) Bulb buyers save on energy savings! Energy Festival visitors in 2003 purchased more than 14,000 compact fluorescent light bulbs. Pollution prevented by using these super-efficient bulbs is equivalent to removing 750 cars from our region's roads! 2.) Visitors compare three types of insulation at last year's festival demonstrating that insulation is a wise investment.

EARTHWAYS HOME

Earthways Home
3617 Grandel Square
St. Louis, MO 63108
(314) 577-0220
www.earthwayshome.org

The EarthWays Home hosts its third annual Fall Energy Festival this October. The rooms, grounds, and street environs of the Garden's unique midtown "green" house will fill with guest exhibitors and demonstrations of equipment, technology, and services that will save money for homeowners while saving limited natural resources.

The festival will feature Renewal by Andersen® window innovations, solar cooking, hybrid cars and other types of alternative-fuel vehicles, hydrogen fuel cells, wind and solar electrical power production options, kids' activities, and more. Staff and docents will be stationed in all exhibit areas of the EarthWays Home, ready to share a wealth of energy knowledge with festival visitors.

Back by popular demand, the Change-A-Light Bulb Sale will offer ENERGY STAR®-certified compact fluorescent light bulbs at the one-time festival price of $.99 each. The Midwest Energy Efficiency Alliance will partner with Ace Hardware stores, GE Lighting, and local funders Ameren UE and the Missouri Department of Natural Resources to sponsor this sale throughout festival hours.

Fall Energy Festival at the EarthWays Home
Friday to Sunday, October 15–17
10 a.m. to 4 p.m.
Free to members

The Power of Worms

Mary Applehof, author of the composting classic *Worms Eat My Garbage*, comes to St. Louis this fall to continue the EarthWays Home 10th anniversary celebration. Her presentations will include a public lecture and book signing on Wednesday evening, September 22, and an after-school, hands-on teacher workshop on Thursday, September 23.

A biologist and former high school teacher, Applehof has earned international recognition for her research and commitment to promoting the value of vermicomposting for soil health, farming self-sufficiency, and environmental stewardship. Her recent travels in Oregon, California, Russia, and Japan have generated new decomposition discoveries, which this lively "Worm Woman" will share with St. Louis educators and gardeners.

These events are free, sponsored by Madison County Planning and Development and the St. Louis-Jefferson Solid Waste Management District. Reservations are required for the Teacher Workshop, which includes a light meal.

Worm Composting at the EarthWays Home
Lecture/booksigning: Wednesday, September 22,
7 to 9 p.m., Shoenberg Auditorium
Teacher workshop: Thursday, September 23,
4:30 to 8 p.m., Commerce Bank Education Center
Free to members

Shaw Nature Reserve
Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
(636) 451-3512
www.shawnature.org

SHAW NATURE RESERVE

Harvest Festival Returns

It's time, once again, for what is quickly becoming an October tradition at the Shaw Nature Reserve. We welcome the third annual Harvest Festival. On hand will be food from some of St. Louis' top restaurants, a farmers' market with local produce, a petting zoo, hayrides, self-guided tours of the Reserve, and live music. Please note: no pets or outside beverages allowed. Coolers may be brought in empty in order to store fresh purchases from the farmers' market.

Presented by the Missouri Botanical Garden, Bank of Washington, Sauce *Magazine, and Schlafly Beer. Sponsored by the* Washington Missourian, *Mount Pleasant Winery, KDHX 88.1, KWMU 90-7, and Pepsi America.*

Harvest Festival at the Shaw Nature Reserve
Sunday, October 10, 11 a.m. to 5 p.m.
General admission is $5 for adults ($4 ages 65+), $3 members; children (12 and under) free

Local Music

Augusta Bottoms (American folk music),
11 a.m. to 12:45 p.m.
The Flying Mules (retro-folk, bluegrass, rock),
1 p.m. to 2:45 p.m.
The Lonesome Pines (Missouri bluegrass),
3 to 5 p.m.
The Cumberland Gap,
11:30 a.m. to 3:30 p.m.
near the entrance to the festival

Restaurants

Sqwire's, Gerard's, Gourmet Café, Modesto, Mirasol, Whole Foods, Kaldi's, Cafe Provencale, Eleven Eleven, and Riddle's Penultimate

Farmer merchants

Joy Stinger with Stinger's Honey, Homemade Gourmet, Walnut Grove Farms, Herbaria Soap, One Sweet Cookie, and more.

PHOTO BY DIANE WILSON

Visitors to Harvest Fest 2003 select delicious organic local produce under the Farmers' Market tent. Bluegrass music performance, hayrides and petting zoo make this a family-fun event.

PHOTO BY DIANE WILSON

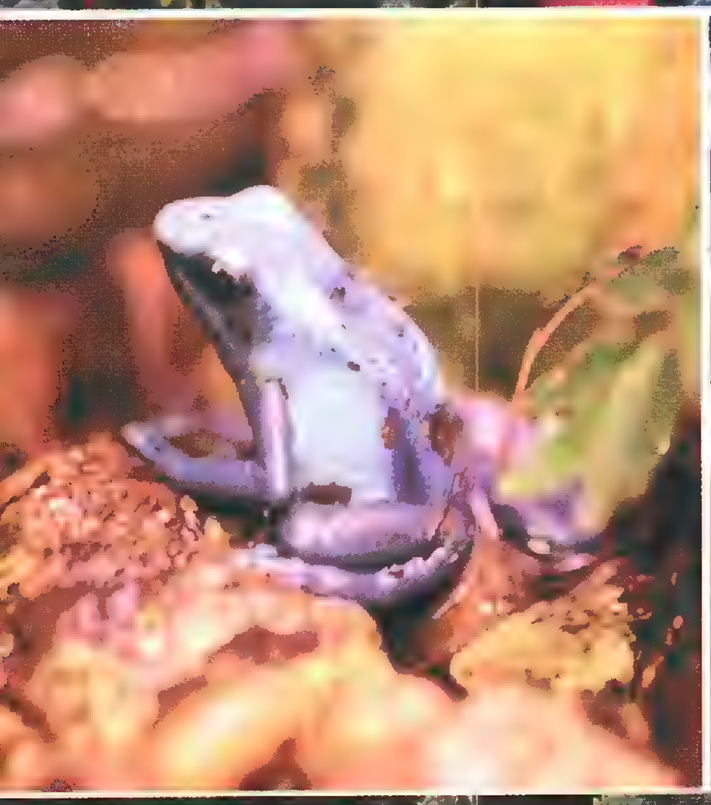
During Prairie Day, "characters" talk about 19th-century life; families enjoy pioneer games and authetic bison burgers.

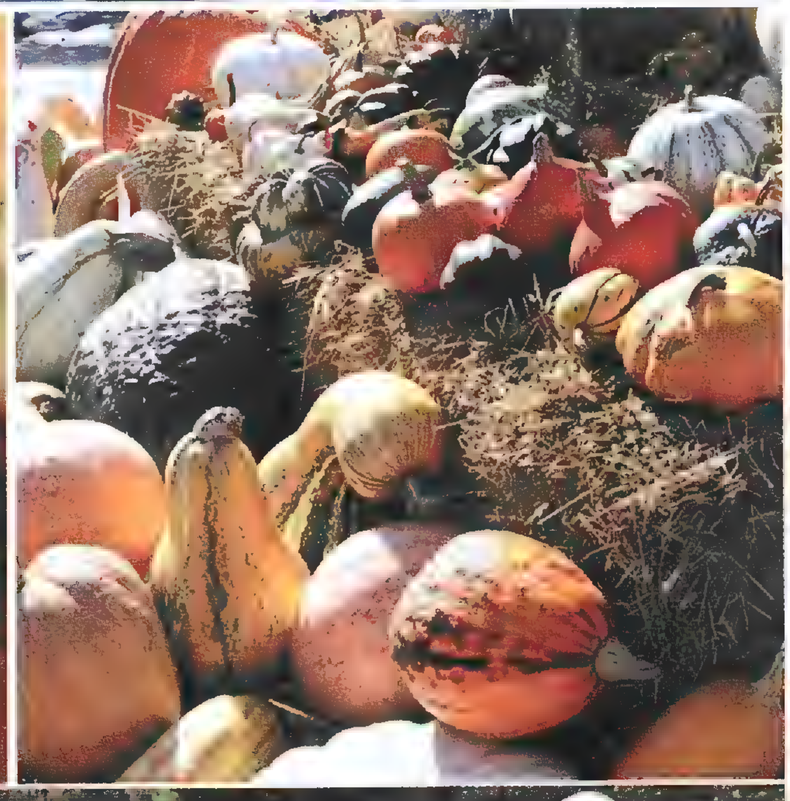
Follow the Herd to Prairie Day

Hitch up the wagons and head out to Prairie Day at Shaw Nature Reserve. This fun-filled family event portrays prairie life through activities and demonstrations. Hike with a naturalist through the Reserve's 250-acre tall grass prairie, check out the teepees, play pioneer games, listen to a string band or storyteller, and watch weavers, spinners, and other craft demonstrations. Exhibits include mammals, reptiles and amphibians, insects, and live birds of prey. Living history characters will re-enact the lives of early prairie inhabitants. An archaeologist and a flint-knapper will display and interpret artifacts of prairie life. Native plant nurseries will sell wildflowers and seeds. Visit the concessions to purchase bison burgers, homemade baked goods, root beer, corn on the cob, and kettle corn. Don't miss out: Prairie Day happens only every other year.

Prairie Day at the Shaw Nature Reserve
Saturday, September 11
10 a.m. to 4 p.m.
Free to members

AUTUMN COLOR AT THE GARDEN





The Butterfly Pages

Wing Ding

Wing Ding 2004

Saturday, October 9. Wing Ding 2004 is in the chrysalis stage and will quickly emerge as our most spectacular and wondrous "butterfly" of a gala ever. Just as the adult butterfly's life is beautiful, yet fleeting, Wing Ding happens but once every two years, so you won't want to miss this marvelous evening to benefit the Sophia M. Sachs Butterfly House & Education Center. Each guest will receive an exquisite gift designed to commemorate the event, and suitable to wear that evening with your black tie attire. Proceeds from this gala benefit will expand Butterfly House education programs and exhibits.

The evening begins with cocktails in the garden at 6 p.m. Stroll around and enjoy the fluttering Monarch butterflies as well as migratory species in the Native Habitat, wander through the conservatory and enjoy seeing the tropical butterflies in flight. At 7 p.m., we'll have dinner on the Emerson Lakeside Terrace.

Tickets are $250 and reservations are required. Please call (314) 577-0299 for details.

Sponsored by Anheuser-Busch Companies, Inc., BSI Constructors, Inc., Commerce Bank, Edward Jones, Emerson, Fleishman-Hillard, Inc., Fox Family Foundation, IR Climate Control Sector/Hussmann Corporation, Laclede Gas Company, Pfizer, Inc.–St. Louis, Sachs Properties, Inc., and U.S. Bank.

Exhibits

A Continuing Blast from the Past

Now through Sunday, September 12. Only two weeks left before the "Blast from the Past" exhibit closes at the Sophia M. Sachs Butterfly House & Education Center. The exhibit traces the evolution of arthropods through the ages, that is, bug history, through a display of fossils, specimens trapped in amber, and small invertebrates. Kids love the fossil dig and a visit to the build-a-bug bar is all part of the fun.

Events

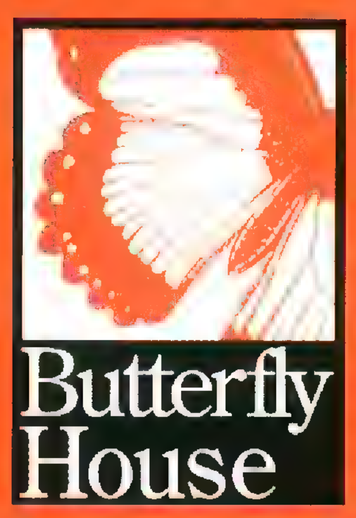
Fall Festival 2004

Saturday-Sunday, September 25–26, 9 a.m. to 4 p.m. The Fourth Annual Butterfly House Fall Festival features a fun-filled weekend with hands-on gardening activities and informational plant and wildlife specialists. This year we will have an expanded kids' corner, including storytelling by Young Audiences' "Artist of the Year" Blake Travis, lots of live music, games, and crafts. All this and butterflies, too! Free with regular admission. Food will be available for purchase.

Boo-tterflies

Saturday, October 23, 11 a.m. to 2 p.m. No tricks, just treats at our special Halloween party. Kids ages 2 to 8: wear your costume and collect yummy goodies throughout the Butterfly House. Play "Which Witch is Which?" "Goblin in the Goblet," and "I Spy-der." Create lots of spooktacular crafts. You'll have a ghostly good time! Activities free with regular admission.

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.



15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

Classes

Home School Academy

This series of classes is specially designed to benefit home-schooled children with extracurricular, inquiry-based science learning—and it's fun! For ages 14 and up, children who attend the Home School Academy program "Monarchs" and two more in February will qualify to become part of the new Junior Docents and be eligible to volunteer at the Butterfly House and assist visitors and staff.

Ant Homes. Wed., Sep. 1, 10 a.m. For grade Pre-K to 1. Study the variety of jobs ants do, what they hide in their underground homes, and how and why they leave scent trails.

Buzzing a Hive. Thurs., Sep. 2, 10 a.m. For grades 1 to 3. Explore honeybees' social behavior, communication, and hive environment. Students will make paper bees and flowers with pollen.

Monarchs. Tues., Sep. 7, noon. For grades 3 to 6. Learn about these marvelous migratory creatures and how they fly as they prepare for their journey and participate in a symbolic migration of artistic representations of butterflies.

Monarchs. Thurs., Sep. 9, noon. For grades 6 to 12. Calculate the generations and number of these magnificent creatures emerging each year, as we study their habitat needs and anatomy.

Camp Bug-A-Loo

Camp Bug-A-Loo preschool program is designed for kids ages 2 to 4 years with a parent or guardian, and books up very quickly due to the limited class size and fun activities. Each one-hour, nature-themed program is packed with science, imaginative play, music, arts and crafts, storytelling, math, and more. The theme this winter will be "Nature's Alphabet," in which flowers, insects, other animals, and food are investigated. Each class meets from 9:30 a.m. to 10:30 a.m. on Wednesdays; 2 to 3 p.m. on Sundays. Please select one date per month. Fees are $13 per class ($9 for members) and includes both child and adult. Advance registration is required and begins October 18. Please call (636) 530-0076, ext. 13.

December: Nature's Alphabet: A-H
Wednesday, December 1 or 8, or Sunday, December 12

January: Nature's Alphabet: I-P
Wednesday, January 5 or 12, or Sunday, January 9

February: Nature's Alphabet: Q-Z
Wednesday, February 2 or 16, or Sunday, February 13

Pavers

June–July 2004

For information on honoring a loved one with a paver, please call the Development Office at (314) 577-5154.

Sarah Louise Ayers
Momma's Dolly
Laura and Brock Ayers

Alexis Marie Bosnake
James Bosnake

Anthony Cappello
Wanda's Love
Wanda Cappello

In memory of Virginia Meyer
05/10/2004
Garden Villas South

I Brake for Butterflies
Mary Fearon
Frank Fearon

In Loving Memory
Baby Dumplings
Stephanie Grisolano

In Memory of Sandra Drucker
John and Barb Ilges

Baby Grace We Love You
March 24, 2004
Matthew A. Luedders and Jane E. Caldwell

In Memory of John & Jackie Keplinger
Stephanie McCormack

In Loving Memory of Beau Shinn
James E. and Paula Shinn

In Memory of Jean Clark, Dearest Aunt
Janice Sims

PHOTO BY ELIZABETH MCNULTY

Juanita Jahn

New Faces

We welcome Juanita Jahn, who joined the staff of the Sophia M. Sachs Butterfly House & Education Center as the Development Manager this June. Previously, Juanita worked at Washington University in St. Louis, most recently as the Associate Director of Development for Parent Programs. Born in Indiana, Juanita moved to Chesterfield 16 years ago from Atlanta. She and her husband have three grown daughters and one grandson. "Walking through the Butterfly House is an awe-inspiring experience," says Juanita. "It will truly be a pleasure helping raise the profile of this unique jewel in the St. Louis area."

FROM THE KEMPER CENTER FOR HOME GARDENING...

Don't forget: the average first frost usually arrives about October 15–21. Fall color peaks shortly thereafter and runs into early November.

What to Do in the Garden this Month

September (all month)

Turfgrass: Begin fall seeding or sodding of cool-season grasses. Seedbeds should be raked, de-thatched or core-aerified, fertilized and seeded. Keep newly planted lawn areas moist, but not wet. If soils become dry, established lawns should be watered thoroughly to a depth of 4–6 inches. Cool season lawns are best fertilized in fall. Make up to three applications between now and December. Do not exceed rates recommended by fertilizer manufacturer.

Miscellaneous: Autumn is a good time to add manure, compost, or leaf mold to garden soils for increasing organic matter content.

Week 1

Ornamentals: Cuttings of annuals can be taken now to provide vigorous plants for over-wintering. Herbs such as parsley, rosemary, chives, thyme, and marjoram can be dug from the garden and placed in pots now for growing indoors this winter.

Fruits: Pick pears before they are fully mature. Store in a cool, dark basement to ripen.

Vegetables: Sowing seeds of radish, lettuce, spinach, and other greens in a cold frame will prolong fall harvests. Egyptian (top-setting) onions can be divided and replanted now.

Week 2

Ornamentals: Except tulips, spring bulbs may be planted as soon as they are available. Begin readying houseplants for winter indoors. Prune back rampant growth and protruding roots. Check for pests and treat if necessary. Houseplants should be brought indoors at least one month before the heat is turned on.

Vegetables: Pinch out the top of Brussels sprout plants to plump out the developing sprouts. Harvest herbs now to freeze or dry for winter use. Tie leaves around cauliflower heads when they are about the size of a golf ball. Keep broccoli picked regularly to encourage additional production of side shoots.

Turfgrass: Lawns may be top-dressed with compost or milorganite now. This is best done after aerifying.

Week 3

Ornamentals: Poinsettias can be forced into bloom for Christmas if they are moved indoors now to a sunny windowsill. Each night, they must be kept in a cool, dark place where there is no light for 14 hours. This must continue until proper color is achieved in 6 to10 weeks.

Fruit: Bury or discard any spoiled fallen fruits.

Vegetables: Pinch off any young tomatoes that are too small to ripen. This will channel energy into ripening the remaining full-size fruits.

Turfgrass: It is not uncommon to see puffballs in lawn areas at this time. Newly seeded lawns should not be cut until they are at least 2–3 inches tall.

Week 4

Ornamentals: Perennials, especially spring bloomers, can be divided now. Enrich the soil with peat moss or compost before replanting. Divide peonies now. Replant in a sunny site and avoid planting deeply. Lift gladiolus when their leaves yellow. Cure in an airy place until dry before husking.

Fruits: Paw paws ripen in the woods. Check all along peach tree trunks to just below the soil line for gummy masses cased by borers. Probe holes with thin wires to puncture borers.

Vegetables: Sow spinach now to over-winter under mulch for spring harvest.

For additional information on any of these topics, visit the Kemper Center for Home Gardening or check out our Gardening Help section at www.mobot.org.

PHOTOS BY JACK JENNINGS, JOSH MONKEN, ALAN S. WEINTZ, AND DIANE WILSON

October (all month)

Ornamentals: Plant spring bulbs among hostas, ferns, daylilies, or ground covers. As these plants grow in the spring they will hide the dying bulb foliage. Nuts or seeds of woody plants usually require exposure to three months cold before sprouting. This may be provided by outdoor planting in fall or "stratifying" in an unsealed bag of damp peat moss placed in the refrigerator. Container-grown and B & B trees and shrubs can be planted. Loosen the soil in an area five times the diameter of the root ball before planting. Mulch well after watering. Continue watering, especially evergreens if soils are dry.

Fruits: Store apples in a cool basement in old plastic sacks that have been perforated for good air circulation.

Vegetables: Sow cover crops such as winter rye after crops are harvested.

Week 1

Ornamentals: For best bloom later this winter, Christmas cactus, potted azaleas, and kalanchoe may be left outdoors until night temperatures drop to about 40º Fahrenheit.

Vegetables: Continue harvesting tender crops before frost. Harvest winter squash and pumpkins before frost. For best storage quality, leave an inch or two of stem on each fruit. Dig sweet potatoes before a bad freeze. Gourds should be harvested when their shells become hard or when their color changes from green to brown. A few degrees of frost protection may be gained by covering tender plants with sheets or lightweight fabric row covers.

Turfgrass: Seeding should be finished by October 15.

Week 2

Ornamentals: Cannas and dahlias can be dug when frost nips their foliage. Allow the plants to dry under cover in an airy, frost-free place before storage. Spring bulbs for forcing can be potted up now and stored in a cool, frostfree place until it is time to bring indoors, usually 12 to 15 weeks.

Fruits: Persimmons start to ripen, especially after frost.

Turfgrass: Broadleaf herbicides can be applied now to control cool season weeds such as chickweed and dandelion.

Week 3

Ornamentals: Transplant deciduous trees once they have dropped their leaves.

Fruits: Monitor fruit plantings for mouse activity and take steps for their control if present.

Turfgrass: Continue mowing lawns until growth stops. Keep leaves raked off lawns to prevent smothering grass. Now is a good time to apply lime if soil tests indicate the need.

Week 4

Ornamentals: Plant tulips now. Trees may be fertilized now. This is best done following soil test guidelines.

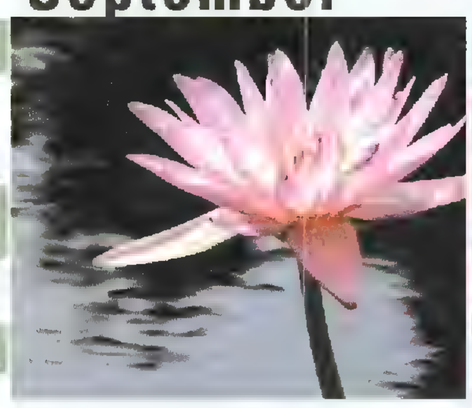
Fruits: Place wire guards around trunks of young fruit trees for protection against mice and rabbits.

Turfgrass: Winterize mowers before storage.

IN BLOOM

for a complete list of plants in bloom go to www.mobot.org

September



water lilies

liriope

roses

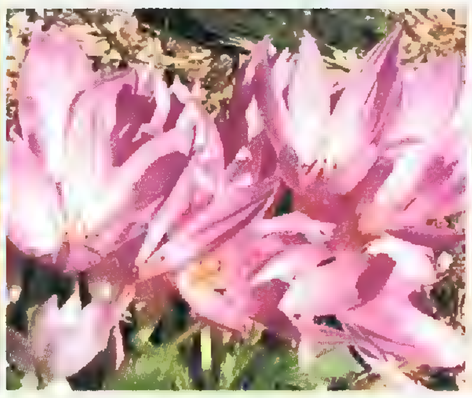
goldenrod

asters

October

fall color

mums



autumn crocus

gourds

ornamental grass

PHOTO BY ELIZABETH MCNULTY

Senior horticulturist and arborist Alan Boefer helps direct arborist-in-training Ben Roesch above as they work to remove storm damage from a gingko tree.

TREE TIPS

Happy Trees "R" Us

Alan Boefer

Senior horticulturist **Alan Boefer** has worked at the Garden for over 14 years, ten of them as a certified arborist. He has personally ascended over 180 trees on Garden grounds, and cites his climb up the Pin oak in the mausoleum area, the Garden's tallest tree, as the most memorable. When he's not exercising at his workout of choice—heaving and shimmying up a tree trunk—Alan also curates the Grigg Nanjing Friendship Garden. We asked him for his top ten rules for good tree ownership, but he only made it to eight. "Trees are very low maintenance," he reminds us.

Rules for happy trees:

1. **Avoid compaction.** Soil compaction is one of the biggest problems in urban areas. A simple solution is to bore into the soil with an auger every foot or so, then insert a calcinated clay product such as Turface or Claycon.
2. **Fertilize only if necessary.** Trees get their nutrients from the rain and especially snow since nitrogren adheres better to it. Whatever you do, do not use a 12/12/12 fertilizer—it would be like getting a year's worth of groceries on your front lawn all at once. Fertilize once in spring using a 4-month release fertilizer like IBDU.
3. **Be careful with string trimmers and lawnmowers.** Don't run them over the roots or you could invite disease. For one way to avoid this problem, see step 4.
4. **Learn correct mulching.** A nice mulch avoids the need to mow beneath a tree. However, it should be no thicker than 2 inches on the ground. Don't build mulch "volcanoes" leading up to the tree—you can kill it.
5. **Remove guide wires.** Okay, it seems silly to point this out, but it happens a lot. Guide wires are only needed for the first year of a new tree planting; otherwise they can girdle the tree.
6. **Never "top" your tree.** Radically removing the top portion of a tree causes it to sprout small branches like crazy, but the long-term result is weak wood, loss of structural integrity, and risk of disease.
7. **Pick the right tree for your yard; don't plan to trim it to size.** Buying bigger is not always better. A 15-foot tree could die of transplant shock. Far better to plant an 8-footer and watch it grow into the space.
8. **When in doubt, hire a certified professional arborist.** It may cost a bit more, but it's better for your tree's health—and your own!

PHOTO BY JOSH MONKEN

Blanke Boxwood Garden

Boxwood Alert

Boxwoods are notoriously finicky to grow in the St. Louis region, although great advances have been made. We'll explore this much beloved hedgerow in depth in the next issue of the *Bulletin*. For now, the Garden's boxwood guru Dan Moses reminds home gardeners that Boxwood Leaf Miner eggs have hatched and now is the time for all to take action. Marathon insecticide is a systemic product taken up through the roots and when the larvae eat the interior of the leaf the poison kills them. Now is a critical time for application to any boxwoods affected by Leaf Miner.

FROM POTS TO PLANKS

Thanks to everyone who made Plastic Pot Recycling such a fantastic success! In the sixth year of this program, recycling both plastic pots and polystyrene cell packs and trays, accumulatively we have saved over 300,000 pounds of plastic from the landfill. Volunteers worked during the month of June to gather pots at the drop site, then fed them into the shredder, before sending them off to Environmental Recycling, Inc. of St. Louis who processed the chipped "waste" product into garden-friendly plastic planks.

Plastic lumber is a durable alternative to CCA-treated lumber and can last 50 years while the life expectancy of treated wood is only 15 years (5 years, if untreated). Plastic lumber is completely waterproof, will not rust, and is not affected by ants, termites, or other insects. It is low maintenance and never needs to be primed, painted, or sealed. So, now's your chance to complete the recycling loop!

Plastic pot lumber is available for sale at cost for a limited time only. The Kemper Center has also developed raised gardening beds kits in three sizes complete with hardware and instructions. They're quite easy to assemble, as demonstrated by Dr. Steven Cline, Wm. T. Kemper Center Manager, so stop by the Kemper Center for Home Gardening today and buy a bed or two.

Step 1: Plank sizes for a raised bed are 4 and 8 feet long for ends and sides, respectively. Assembly of a 4 x 8 foot raised bed begins with the alignment of the end and side corners on a flat surface.

Step 2: Each corner is pre-drilled for inserting a lag screw to attach sides to ends. An end wrench or socket wrench is necessary to complete this step.

Step 3: Each raised bed comes in two parts; these are assembled separately then stacked on top of each other over the planting site.

Step 4: The upper and lower sections are stabilized in the middle, using a section of recycled lumber and screws. This stabilization prevents shifting of the sections when the soil is added.

Step 5: Approximately one cubic yard of topsoil is added to fill each 4 x 8 foot raised bed. Some settling should be expected.

Step 6: As the soil is added, a rake can be used to distribute and blend any amendments like compost, fertilizers, or expanded clay to increase drainage.

Step 7: Raised beds can be very productive for annuals, perennials, herbs or vegetables including root crops like carrots, beets, potatoes, or turnips. "Hoops" of PVC pipe can be added over the bed for protective cover against insects, insulation against cold as a season extender, or as support for vine crops.

Download a specification sheet and price details at the Plastic Pot section of the Garden's website: www.mobot.org/hort/activ/plasticpots.shtml. For more information on sales of the kits and lumber, call (314) 577-9443.

This project is supported by St. Louis-Jefferson Solid Waste Management District and the Missouri Environmental Improvement and Energy Resource Authority.

PHOTO BY ALAN STENTZ

Extinct in the wild, Franklinia alatamaha *is a challenge to grow in St. Louis.*

Extinct Tree Challenge

A member of the tea family (Theaceae), *Franklinia alatamaha* boasts late-summer blossoms and striking fall foliage, but its extraordinary history is the more intriguing story. American father and son botanists John and William Bartram discovered a small grove of an unknown tree growing along the Altamaha River in Georgia in 1765. On a later trip, William gathered seeds to propagate at their Philadelphia garden and named the tree *Franklinia alatamaha* in honor of John Bartram's great friend, Benjamin Franklin. The tree was never again seen in the wild after 1803, and all Franklin trees growing today are descended from those propagated and distributed by the Bartrams, who are credited with saving it from extinction.

The Missouri Botanical Garden is working to preserve habitat and set conservation priorities in some of the most endangered regions around the globe, but in the most dire of circumstances, plants can still sometimes be saved from extinction by preservation *ex situ*, meaning, away from their native location. The Center for Plant Conservation, headquartered at the Garden, runs a seedbank of America's most endangered plants and works to restore them to the wild.

Franklin trees are definitely a challenge to grow in the St. Louis area. They require extremely good soil drainage, and so are not well suited to the region's typical heavy clay soils. The tree is also hard to transplant because of its sparsely fibrous root system, and is best left undisturbed once planted in the landscape. Home gardeners desiring a challenge should consider planting a Franklin in a raised bed in a sunny location with some shade to offset our hot summers. The Kemper Center for Home Gardening features one specimen in the Fragrance Garden.

PHOTO BY MAX GOLDSTEIN

A cicada killer wasp in the herb garden behind Tower Grove House

Herb Garden Intruders

Visitors to the herb garden behind Tower Grove House may have witnessed an unusual insect this July when Cicada killer wasps (*Sphecius speciosus*) temporarily invaded. In fact, it was pretty hard to miss them: these wasps are nearly 2 inches long! Cicada killers occur in all states east of the Rocky Mountains and prefer to dig their burrows in sandy, bare, well-drained soil exposed to full sunlight. As predators of cicadas, these wasps are beneficial insects. Each female digs one to several burrows where it buries paralyzed cicadas, then lays an egg in the body. When it hatches, the larva has a ready cache of food. There's only one generation per year. Males (the ones that buzz you when you enter their territory) can't sting. Females can sting, but are typically shy and would only sting the most aggressive, incautious person who refused to leave them alone.

FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

Toad lily

Tricyrtis formosana
(syn. *T. stolonifera*)

Toad lily is perhaps best known for its unique flowers, ability to bloom in shade, and early fall bloom time. It features small, lily-like flowers (1 inch long) with six showy tepals arranged in branched clusters primarily at the stem ends but also in the upper leaf axils. Flowers are white with deep reddish-purple spotting and yellowish throats. Stems grow upright to 2–3 feet tall. A rhizomatous plant, toad lily will spread over time, but in a non-invasive manner.

Plants of Merit™ are selected by Garden staff for outstanding qualities and dependable performance in the St. Louis area. View all current PMs on the website: www.mobot.org/gardeninghelp.

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Plant Finder: Cultural information on over 2,000 plants growing in the Kemper display gardens.

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Plants in Bloom: Updated weekly at the Garden, along with current photos, updated biweekly.

INSIDE IRAN

Garden researcher Dr. Ihsan Al-Shehbaz was among the team of American scientists recently permitted to do field work in Iran.

Above: the market in Tehran.

Right: the mountain village of Masooleh.

For more than three millennia, Iran, or Persia as it was formerly called, was a melting pot of civilizations. But after 1979, when the country became a theocratic republic and the ruling shah was forced into exile, travel and tourism by outsiders slowed to a trickle. In an exciting development this May, a team of seven American biologists including Missouri Botanical Garden curator Dr. Ihsan Al-Shehbaz were permitted to do field work in Iran funded by a grant from the National Geographic Society.

The team visited many ecologically diverse areas, from desert and salt flats between Tehran and Esfahan, to the ice-capped Zagros Mountains, to undisturbed deciduous and evergreen forests on the north-facing slopes of Elburz Mountains south of the Caspian Sea. Dr. Al-Shehbaz, one of the world's foremost experts on Brassicaceae, the mustard genus, was enthusiastic: "Iran is a heaven for mustards. It has 115 genera of Brassicaceae, more than any other country or continent other than Asia." During the three weeks, while collecting material for molecular studies, Al-Shehbaz discovered a new species of Dames rocket *(Hesperis)* that he plans to name after a famous Iranian taxonomist. The team hopes to return to Iran to continue their research.

In addition to long hours of field work and research in the local herbaria, the American visitors had a chance to visit some of Iran's famed palaces, turquoise-tiled mosques, and exotic bazaars. They toured the Grand Mosque of Esfahan and the Golestan Palace of the first Shah, and traveled to Masooleh. Located on a steep mountain slope, the village features stacked houses, so that the roofs of one level form the streets of the level above. "Everywhere, we received a very warm welcome," adds Al-Shehbaz. "From the scholars and academics who greeted us with roses at the airport, to the general public in the streets and at the markets."

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July–August 2004

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PHOTO BY JACK JENNINGS

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, at (314) 577-9455 for further information and a complimentary brochure.

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Garden Gate Shop

4344 Shaw Blvd. • (314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

Special offers and events!

Artists of the Month:

Sep.	John Smelser
Oct.	Jonee Nehus

Food tastings every Wednesday, noon to 3 p.m. Members receive an additional 10% off food every Wednesday in September and October.

Trunk Shows, 10 a.m. to 5 p.m.

Sep. 11–12	Del Sol
Sep. 18–19	Jewelry By Lacey
Sep. 25–26	Yael Shomroni
Oct. 9–10	Del Sol
Oct. 16–17	Down To Earth Gift Baskets
Oct. 23–24	Shelly Solomon
Oct. 30–31	Silver Cat

Sep. 11	Kid's Storytime, 11 a.m.
Sep. 14	Members receive 20% off everything.
Sep. 18	Bulb workshop with Mary Ann Fink, noon to 1 p.m.
Sep. 18–19	Members receive an additional 10% off all bulbs.
	MO Wildflower Nursery Native Plant and Seed Sale, 10 a.m. to 4 p.m.
Sep. 25	Celebrate St. Louis, 11 a.m. to 1 p.m. Cynthia S. Easterling, Edna Gravenhorst, Frank Schaper, Richard Deposki, Albert Montesi, Joan M. Thomas, and John Wright will sign copies of their books about the history of St. Louis.
Oct. 7	Members receive 20% off everything
Oct. 9	Kid's Storytime, 11 a.m.
Oct. 23	Orchid workshop with Hilltop Orchids, 11 a.m. to 1 p.m.
Oct. 23–24	Members receive an additional 10% off all orchids
Oct. 30	Haunted St. Louis, 11 a.m. to 1 p.m. Robbi Courtaway and Stephen Walker will sign copies of their books about haunted St. Louis.
	Kid's Storytime, 11 a.m.

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OUR FIRST SALE EVENTS!

Tues., Sep. 14
and
Thurs., Oct. 7

LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

The Little Shop Around the Corner opened its doors to the world a few months ago and will host its first-ever sale events this fall. Garden members receive 20% off everything!
Come take a look and see what antiques and treasures you'll find.

4474 Castleman, St. Louis, MO 63110 • (314) 577-0891
at the corner of Shaw and Vandeventer
Hours: Wed. to Sat., 10 a.m. to 4 p.m and Sun., 12 to 4 p.m.
All proceeds benefit the Missouri Botanical Garden.

MEMBERS' ENTRY COURT

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from May 15, 2004 through July 15, 2004.

bronze signature brick

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engraved clay brick

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KIDSTUFF

Exercising Young Minds

This fall, two exciting education programs for you and your preschooler return by popular demand.

Watch your two- to three-year-old bloom as they discover the beauty of the Garden in the **Little Sprouts** program. Pediatric educators from the Women's and Children's Center of St. John's Mercy Medical Center will lead you and your child on short walks through the Garden with age-appropriate activities related to early childhood growth and development. Each week will feature a different activity, followed by a short story, snack, and simple craft project. Tips for guiding your growing child through the toddler and pre-school years will be discussed at each session. The six-week series runs on Tuesdays, September 28 through November 2, 9:30 to 11 a.m. Cost is $108 fee ($96 for Garden members). Advance registration is required, call (314) 577-9406.

Garden Buds explores the beauty and natural wonders of the Garden with your preschooler. Designed for four- to five-year-olds accompanied by an adult, monthly activities address early childhood curiosities about plants and the natural world. Each 1½- hour session includes a visit to the Garden grounds, indoor activities, a hands-on project, and a snack. Cost is $18 per child ($16 for Garden members) per session and free for adults. Advance registration is required. For a complete schedule of offerings, times, and locations, visit the Garden's website: www.mobot.org/education, or call (314) 577-9506 to receive a brochure.

Strollerobics fitness walking returns this fall, back by popular demand. Over the course of eight weeks of one-hour sessions, parents exercise as they push their children in strollers and enjoy the Garden together for a fun, low-impact workout for all fitness levels. Classes take place from 9:30 a.m. to 10:30 a.m. outside on the Garden grounds. Sessions last eight weeks, available on Sundays, Mondays, Tuesdays, Thursdays, and Fridays beginning the week of August 29– September 3. The cost for an eight-class session is $55 per adult ($50 for Garden members). Advance registration is required, and class size is limited to 20 adult participants each, so call (314) 577-9506 to register today.

State Farm Funds Education

In May, agents from State Farm Insurance presented Dr. Luther Williams, William T. Kemper Director of Education and Interpretation at the Garden, with a donation to support the Garden's Education Compact with St. Louis Public Schools. From left: Dr. Williams, St. Louis agent Jeannie Glover, agency vice-president Curt Dreier, and State Farm agent John Hayden.

Variety at the Garden

The Garden welcomes St. Louis Variety Club! On Wednesday, August 4, over one hundred special-needs children rolled and strolled around the Garden with delight. St. Louis Variety's mission is to serve children with physical and mental disabilities, whose needs would not otherwise be met.

CALENDAR OF EVENTS

2005 Calendar available.
Available now in the Garden Gate Shop: the 2005 Missouri Botanical Garden wall calendar with images by Jack Jennings. Buy your gifts early, as they always sell out. $12.95

September

Register now for classes and tours
at the Missouri Botanical Garden for adults and families. Log on to www.mobot.org/gardeninghelp for the listing, or call (314) 577-9441.

Plants of the Lewis and Clark Trail
self-guided tour map directs visitors to 27 plants and trees at the Garden that were discovered and described by the explorers throughout their journey. Available at the ticket counter, free with admission or membership.

Now through Sun., Sep. 12
"Blast From the Past!" exhibit on insect evolution at the Butterfly House. See page 18.

Fri.–Sep. 4–6
Japanese Festival. See page 8.

Sat., Sep. 11
Prairie Day at Shaw Nature Reserve. See page 15.

The Garden Conservancy's Open Days tour. See page 10. Around St. Louis.

Sat.–Sun., Sep. 11–12
Gardeners of America show. Saturday: noon to 5 p.m. Sunday: 9 a.m. to 5 p.m. RC.

**** Tues., Sep. 14**
Members' Day: Tour of the Victorian Area. See page 8.

**** Fri., Sep. 17**
A New Leaf: Fall Fashions over Tea. See page 8.

Fri.-Sat., Sep. 17-18
Open House Days at the EarthWays Home. Tours at 10 a.m., 11 a.m., noon, and 1 p.m. EH. $

Sun., Sep. 19
By invitation only: Brick Party. See page 11.

Fall season of Classic 99's "From the Garden, Live"® concert series opens with a guest performer to be announced. Free. Call (314) 725-0099 for ticket information. Noon. RC.

Mon., Sep. 20
"Amazing African Violets: Getting the Most Out of Your Plants." Kent and Joyce Stork of the African Violet Society of America. 10 a.m. to noon. RC.

Wed., Sep. 22
Lecture and book signing with worm composting expert Mary Applehof. See page 14.

Thurs., Sep 23
President of the Missouri Historical Society Robert Archibald will read and sign copies of his new book, *The New Town Square: Museums and Communities in Transition.* 11 a.m. RC.

Hands-on composting workshop, featuring "Worm Woman" Mary Applehof at the Education Center. See page 14.

Sat., Sep. 25
KFUO Classic 99's "Rhapsody in Bloom." Light classical music and contemporary dance at several locations throughout the Garden. 10 a.m. to 3 p.m.

Sat.–Sun., Sep. 25–26
Greater St. Louis Dahlia Society show. Saturday: noon to 5 p.m. Sunday: 9 a.m. to 5 p.m. RC.

Fall Festival at the Butterfly House. See page 18.

October

Sat.–Sun., Oct. 2–3
Thirteenth annual "Best of Missouri Market." See page 9.

****Thurs., Oct. 7**
Members Day: Fall Color Prairie Walk at Shaw Nature Reserve. See page 8.

Sat., Oct. 9
Wing Ding at the Butterfly House. See page 18.

Sun., Oct. 10
Third annual Harvest Festival at Shaw Nature Reserve. See page 15.

****Wed., Oct. 13**
By Invitation Only: Director's Associates and Heritage Society Dinner. See page 11.

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Fri.–Sat., Oct. 15–16
Open House Days at the EarthWays Home. Tours begin at 10 a.m., 11 a.m., noon, and 1 p.m.

Fri.-Sun., Oct. 15–17
Third Annual EarthWays Home Energy Festival. See page 14.

Oct. 16 through Nov. 19
St. Louis Blooms: Autumn Colors. See pages 12–13.

Sat., Oct. 23
"Boo"tterflies! at the Butterfly House. See page 18.

Sat.-Sun., Oct. 23-24
Orchid Society of Greater St. Louis show and sale. Saturday: noon to 5 p.m. Sunday: 9 a.m. to 5 p.m. RC.

Greater St. Louis Daffodil Society sale. Saturday: 7 a.m. to 5 p.m. Sunday: 9 a.m. to 5 p.m. RC.

Sat.-Sun., Oct. 30-31
Wizard Weekend! See page 13.

Mid-America Regional Lily Society sale. 9 a.m. to 4 p.m. RC.

Sat., Oct. 31
Classic 99's "From the Garden, Live"® presents St. Louis Children's Choir. Free. Call (314) 725-0099 for ticket information. Noon. RC.

November

Sun., Nov. 7
Classic 99's "From the Garden, Live"® presents Johnnie Johnson. Free. Call (314) 725-0099 for ticket information. Noon. RC.

Mon., Nov. 8
Tower Grove House Auxiliary autograph party with Jeff Guinn, author of *The Autobiography of Santa Claus.* The Dream House, 15425 Clayton Rd. Lunch ($18.50) at 11:30 a.m. or dinner ($28.50) at 6:30 p.m. Reservations required; call (636) 227-7640.

TRAM OFFLINE
Public tram tours will not be in service during set up and take down of the Japanese Festival. Sep. 1–7

the key

CA = Cohen Amphitheater	GGS = Garden Gate Shop	MC = Monsanto Center	SP = Spink Pavilion
CL = Climatron	JG = Japanese Garden	RC = Ridgway Center	** denotes a members-only event.
EH = EarthWays Home	KC = Kemper Center	SNR = Shaw Nature Reserve	$ denotes an additional fee.

All events are free with admission or membership unless otherwise noted.

WHERE IS IT?

To popularize less well-known areas or views of the Garden, we're featuring them on the Bulletin's *back cover.*

The stone lantern is a fixture of Japanese gardens since antiquity. Numerous distinctive shapes exist, each with an open elevated compartment for a candle or oil lamp to cast flickering light on nearby plantings, dry garden, path or the surface of water. A number of types are represented in the Garden, some quite visible—such as the 1904 World's Fair *yukimi* or snow-viewing lantern that first greets visitors to the Garden—others more hidden, such as this *edogata* or old Tokyo-style lantern on the path from the Plum Viewing Arbor to Teahouse Island.

contact information

Events hotline:	(314) 577-9400
Toll free 1-800-642-8842	
Garden Café:	(314) 577-5196
Daily, 9 a.m. to 5 p.m. (Wed. & Sat. from 7 a.m.)	
Garden Gate Shop:	(314) 577-5137
Daily, 9 a.m. to 5:30 p.m.	
Horticulture Answer Service:	(314) 577-5143
Weekdays, 9 a.m. to noon	
Main switch	(314) 577-5100
Children's Education:	(314) 577-5140
Communications:	(314) 577-0254
Composting Hotline:	(314) 577-9555
Continuing Education:	(314) 577-9441
Corporate Partners:	(314) 577-5113
Development:	(314) 577-5120
Facility Rental:	(314) 577-0200
Group Tours:	(314) 577-0275
Henry Shaw Society:	(314) 577-9495
Library:	(314) 577-5155
Membership:	(314) 577-5118
Planned Gifts:	(314) 577-9455
Senior Programs:	(314) 577-9506
Tribute Gifts:	(314) 577-5118
Volunteer Services:	(314) 577-5187

Garden family

Butterfly House:	(636) 530-0076
15193 Olive Blvd., Faust Park, Chesterfield, MO 63017	
EarthWays Home:	(314) 577-0220
3617 Grandel Square in Grand Center, St. Louis, MO 63108	
Little Shop Around the Corner:	(314) 577-0891
4474 Castleman Drive, St. Louis, MO 63110	
Wed. through Sat., 10 a.m. to 4 p.m; Sun., noon to 4 p.m.	
Shaw Nature Reserve:	(636) 451-3512
Hwy. 100 & I-44, Gray Summit, MO 63039	

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. (and Wednesday evenings in summer 2004). Parking is free.

Admission
- Free for members
- General admission is $7
  $3 for St. Louis City/County residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County residents.
- Children age 12 and under—free.
- Admission free to St. Louis City/County residents until noon every Wednesday and Saturday throughout the year, (except Chinese Culture Days, Japanese Festival, and Best of Missouri Market).
- Special events may require an additional fee.

Editor: Elizabeth McNulty
Designer: Ellen Flesch
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Photo credits for center montage: Jack Jennigs, Tim Parker, Charles Schmidt, and Diane Wilson.

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Missouri Botanical Garden

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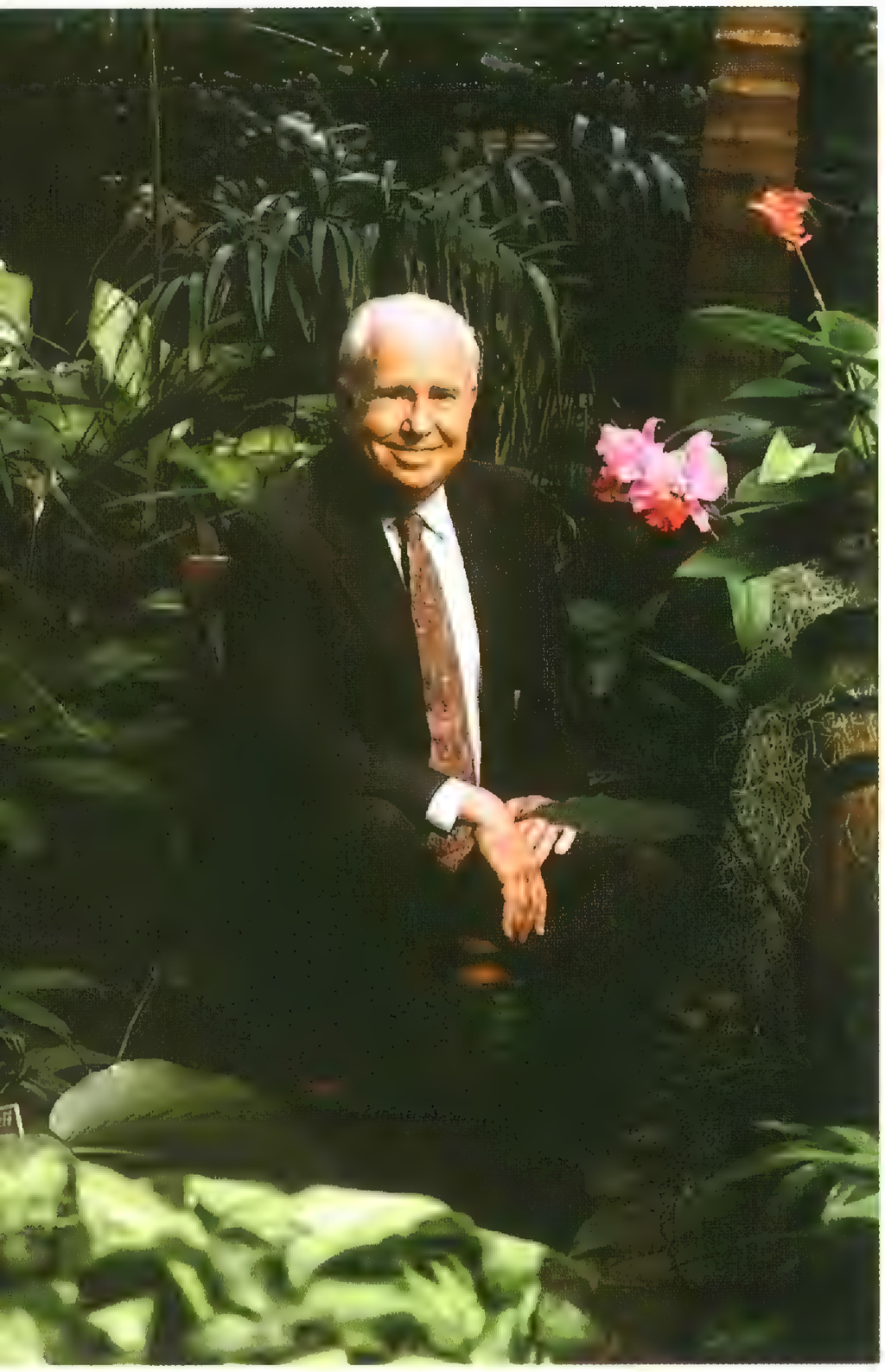

PHOTO BY PETER HOWARD

to discover and share knowledge
about plants and their environment,
in order to preserve and enrich life.

—mission of the Missouri Botanical Garden

from the director...

What a fantastic fall! During this season of festivals, when so much of our attention is focused on the Garden as a public attraction, it is also important to remember the unseen Garden, the behind-the scenes work of our 48 Ph.D. botanists who strive to find, document, and share knowledge about plant life that may hold the key to relieving hunger, curing disease, and assisting in sustainable development worldwide.

The nations of the tropics contain eighty percent of the world's biological diversity, and roughly eighty percent of its population, but no more than a fraction of the scientists and engineers who are needed to manage their natural resources. With operations in 30 countries, the Missouri Botanical Garden is committed to helping build competency among local students and to developing local partnerships and institutions. The Stewards of the Earth capital campaign seeks additional funds to further our common goals of research and conservation.

As we approach the holiday season, we increasingly turn to you and our other friends to enhance unrestricted giving to the Garden through the Henry Shaw Fund. The Fund supports every area of the Garden, from our splendid horticultural displays and renowned education programs, to the pioneering work in conservation and ecological restoration. Every year, our members extend themselves to enable the Henry Shaw Fund to reach its goals, and for this, we are grateful.

As we enter the time of year for sharing, it is a great pleasure to share with you the wonderful pleasures of our Garden. Gardenland Express rolls into town this holiday season, and I hope to see you there.

Peter H. Raven, *Director*

Peter H. Raven

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editor's note...

November brings our last *Bulletin* of the year. Thanksgiving approaches. We're thankful for many things this season… the bright sunny afternoons as the days get shorter and chill, the gorgeous views of landscape and tree forms and loamy black-earth beds afforded as the colorful leaves fall away, the hard work of the Garden's horticulture staff to get everything tidied up and ready for winter. Thankful, too, for the generosity of Henry Shaw, who left our community this oasis of peace and beauty in the heart of the city. And thankful for the many members who continue to support the Garden with their time and financial contributions.

The holidays get so busy that it becomes even more essential to make time for reflection and thankfulness. Bring children and grandchildren to the charming *Gardenland Express: Vintage St. Louis*, this year's nostalgic incarnation of our annual holiday flower and train show (page 7). If the children are small, take in the show during Santa Weekend, December 11–12, when they will also be able to visit the North Pole's most famous citizen. If shopping is in order, swing by during our holiday evening hours: Thursdays and Fridays until 8 p.m. from Thanksgiving until Christmas. Whether decorating a holiday tree (pages 16–17), plotting your next gardening project (pages 18–19), or just taking a break from the hustle and bustle with a stroll through the Japanese Garden, the Garden is the place for you this holiday season.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

PHOTOS BY DAVE BOUFFORD AND JAN SALICK

The Missouri Botanical Garden is engaged in a $71 million drive to strengthen our critical role in establishing St. Louis as a world leader in the plant sciences and greatly enhance biodiversity and conservation around the globe.

The Garden seeks to raise $35 million, from a total goal of $71 million, for research and conservation. Please join us in making a gift to the Stewards of the Earth campaign.

Research

In a world of rapidly dwindling natural resources, one cannot overstate the urgency of discovering and sharing basic information about Earth's organisms. The Missouri Botanical Garden is one of the world's premier centers of botanical research. It houses the world's largest botanical database, one of the world's finest botanical libraries and largest collections of dried plant specimens, and one of the world's largest and most active groups of plant scientists. Research and conservation at the Garden are founded on the premise that we do not adequately understand the world's plant diversity and that without this knowledge we will be unable to protect and preserve this biological wealth, safeguard natural habitats, and support long-term sustainability.

The Taylor Fund for Ecological Research, which was established in 2001 with a lead campaign gift from the Taylor family, allows the Garden to advance the knowledge of plants and their ecosystems, to expand indigenous scientific capacity for conservation, and to promote community-based management of natural resources. A portion of the fund is devoted to projects in highly threatened yet previously unexplored regions of the world that we have determined to be exceptionally rich in biodiversity. Another portion, earmarked as an endowment for research, allows the program at the Missouri Botanical Garden to continue to enrich our knowledge.

Supported by Taylor Fund for Ecological Research, the Missouri Botanical Garden has enhanced its worldwide programs, specifically work in the following:

- Building capacity in areas of scientific and economic interest by working toward a better understanding of particular groups of plants.
- Enhancing the Garden's electronic capabilities for dealing with large amounts of botanical information and improving the curation of our research collections.
- Strengthening scientific and conservation partnerships in countries where we are active now and developing new partnerships.
- Bolstering and revitalizing critically important ongoing projects, such as the studies of the flora of China, Central America, and Madagascar.
- Exploring in depth poorly known areas that are recognized as among the most important centers of biodiversity in the world.

join us...

PHOTO BY TRENT FOLTZ

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact the office of Development at (314) 577-5120.

Shown above: Plants provide the food, medicines, fuel, and basic necessities of life. Garden researchers work throughout China to understand the world's largest flora in order to ensure a stable, sustainable future.

One of the Garden's long-term and most important undertakings is its work in China. With 30,000 plant species—one-eighth of the world's known plants—China is the only nation with unbroken connections among tropical, subtropical, temperate and boreal forests. Some 7,000 species of Chinese plants are of horticultural importance, and about 5,000 species are used as medicines. The Garden is coordinating an international collaborative project to produce the first comprehensive, English-language account of the seed plants of China. This work, when finished, will comprise 25 volumes of text accompanied by 25 additional volumes of illustrations. To date, 10 volumes of text and eight of illustrations have been published. Plants play a major role in the "whole fabric" of life in China. They provide food, medicines, fuel, and many of the basic necessities of life. Population pressures, misuse of resources, and extensive industrialization have created many environmental problems and caused serious deterioration of China's natural resources. Therefore, ensuring a stable, sustainable future for China's flora requires an accurate, up-to-date understanding of the country's plants.

The Garden is also contributing to conservation in China. In northwest Yunnan, in collaboration with local institutions, the Garden is training local professionals (including agronomists, foresters, conservationists, and doctors) in ethnobotany—the dynamic relationship among people, plants, and the environment. Scientists from the Garden are also conducting related research projects that will contribute to a conservation analysis of the Meili Snow Mountain—an area renowned for its large number of endemic plants—and help integrate local traditions of plant use into natural resource policy.

Conservation

In 2001 the Missouri Botanical Garden founded the Center for Conservation and Sustainable Development (CCSD) to consolidate and apply the Garden's scientific expertise in order to safeguard Earth's biodiversity and ensure its availability for use in perpetuity. The establishment of the CCSD reflects the Garden's conviction that conservation must be based on rigorous science and dedicated to the sustainable development and equitable sharing of resources. The CCSD develops strategies to apply the vast store of knowledge gathered by Garden scientists in tropical countries over the past five decades and helps find resources to implement these strategies. The CCSD's work grows from the recognition that any rational ability for people to learn about, manage, and conserve the Earth's plants properly depends upon building an infrastructure of institutions and well-trained people in countries rich in biodiversity. By developing partnerships with individuals, organization, and institutions in tropical countries, the Center extends the resources of the Garden—information, trained people, networks for conservation—to improve life in these biodiversity-rich countries.

The CCSD has five goals: to analyze and interpret scientific data as a basis for conservation decision-making; to build the capacity for conservation in tropical countries by training local people in conservation science; to develop community programs aimed at sound local management of natural resources; to build partnerships with public and private sector organizations and agencies to foster conservation; and to participate in and promote the international conservation endeavor.

FOR MEMBERS ONLY...

PHOTO BY DIANE WILSON

Breakfast with Santa
Sat., Dec. 4, 8 to 10:30 a.m.
By reservation only, (314) 577-5154

Signing for Santa

Tower Grove Auxiliary is hosting a lunch and dinner autograph party at the Dream House, 15425 Clayton Road, with Jeff Guinn, author of *The Autobiography of Santa Claus*.
Lunch: $18.50. Dinner: $28.50.
All proceeds benefit Tower Grove House.

Holiday Signing Parties
Mon., Nov. 8,
lunch at 11:30 a.m.; dinner at 6:30 p.m.
By reservation only, call (636) 227-7640.

Gourmet in the Garden

Autumn "Gourmet in the Garden" begins with cocktails, followed by an optional guided tour of the Climatron, and then dinner in the Spink Pavilion. The wild-game menu includes pheasant ravioli, venison and blueberry sausage, pancetta-stuffed rabbit, spinach and mushroom pudding, Brussels sprouts, and wild berry trifle. Tickets are $85 per person.

Gourmet in the Garden
Tues., Nov. 9 and 16, 6 p.m.
By reservation only, call (314) 577-5154.

Deck the Halls

Looking for the latest ideas and creative touches for your home this holiday season? The fabulously creative designers from Ladue Florist will demonstrate how to transform your home into a winter wonderland. See how to add festive charm and dramatic focal points simply and elegantly this holiday.

Holiday Decorating
Thur., Nov. 11, 11 a.m.
Shoenberg Auditorium

Holiday Preview

Don't miss this special, members-only party and magical evening viewing of "Gardenland Express: Vintage St. Louis." Cash bar, musical entertainment, special holiday menu in the Garden Café, and of course holiday shopping in the Garden Gate Shop. RailCruise America, one of the Gardenland Express sponsors, has provided a set of four tickets (a $320 value) to be awarded to one lucky member in attendance at the preview.

Holiday Show Preview
Wed., Dec. 1, 5 to 8 p.m.
Ridgway Center

Breakfast with Santa

Visit with Santa when he stops by the Garden, make a holiday craft, and enjoy breakfast in the Garden Café: waffles, scrambled eggs, bacon, hash brown potatoes, biscuits, mini muffins and danishes, served with milk, orange and cranberry juices, and coffee. Bring a pair of mittens or a child's hat to donate to a neighborhood charity. Tickets are $16 per person; children under two are free. Seating in the Garden Café is first come, first served.

Breakfast with Santa
Sat., Dec. 4, 2004, 8 to 10:30 am
By reservation only, please call (314) 577-5154
by Monday, November 29.

Holiday Luncheon

The Tower Grove House Auxiliary will hold two holiday luncheons in Spink Pavilion. Tickets are $20 and include attendance prizes and admission to "Gardenland Express 2004: Vintage St. Louis." All proceeds benefit Tower Grove House.

Holiday Luncheons
Mon., Dec. 6 / Wed., Dec. 15, noon
By reservation only, please call (314) 577-5154.

Holiday Lights Bus Tour

Join the Tower Grove House Auxiliary for a holiday lights bus tour and dinner. The bus departs from the Ridgway Center and makes stops at the Old Courthouse, the Jewel Box, and Tilles Park, before proceeding to the Dream House for dinner. After the meal, the tour continues to a private home before returning to the Garden. Cost is $50 per person.

Holiday Lights Bus Tour
Tue., Dec. 7, 3 to 9:30 p.m.
By reservation only, please call (314) 577-5154.

Holiday Concert

Choral music is an integral part of the season, and this year the Garden welcomes the St. Louis Metro Singers to the annual members-only holiday concert. This 70-member ensemble is known throughout the region for its diverse and traditional recitals of holiday music. Seating is first come, first served.

Holiday Concert
Sat., Dec. 11, 1 p.m.
Shoenberg Auditorium

GARDENLAND EXPRESS 2004

PHOTO BY LISA FRANCIS

Gardenland Express
Wed., Nov. 24 to Sun., Jan. 2
9 a.m. to 5 p.m. (8 p.m. on Thur. and Fri.)
Admission: $10 ($7 for seniors),
$3 for children 12 and under.
Members and their children: FREE

The second annual Missouri Botanical Garden holiday flower and train show features the best of "Vintage St. Louis." For six weeks, the show will feature a rotating display of over 5,000 square feet of colorful blooms—including over 700 poinsettias, as well as cyclamen, amaryllis, fragrant narcissus, begonia, peperomia, kalanchoe, and exotic anthurium.

Through this miniature landscape, a variety of theme trains, including a vintage streetcar, chug around historic St. Louis structures such as the giant birdcage from the 1904 World's Fair, the waterfront, and various Route 66 favorites. A tiny video camera attached to one of the locomotives will broadcast a "train's eye view" on television monitors. Vignettes featuring vintage cars, people, and animals will dot the countryside and thousands of tiny lights will illuminate the trains, buildings, and tall ficus trees.

Around the perimeter, two trains on elevated tracks will weave through photographic cut outs of local train depots and familiar landmarks. A one-of-a-kind "fantasy train" built from recycled objects and plant material will travel along the back wall. Beginning in late October, a sneak preview of the train garden installation in progress will be posted online at www.mobot.org/hort. Click on "Activities and Events."

The Garden Gate Shop will be open during show hours for holiday shopping. Cookies, coffee, and cocoa will be available for purchase and there will be a cash bar on Thursday and Friday evenings. Two lucky visitors will win four tickets each (a $320 value) for a chartered railcar experience, compliments of RailCruise America, at the conclusion of the show in January.

Holiday Wreath Exhibit In conjunction with the flower and train show, the annual holiday wreath exhibit opens in the Ridgway Center. Featuring creations by the finest floral designers in the St. Louis area, these gorgeous wreaths offer inspiration to all home holiday decorators. Some wreaths are sold through a silent auction with proceeds benefiting the Garden.

Participants in 2004 include: Artistry, Bittersweet Botanicals, Dale Rohman Enterprises Inc., Drury House, Eckert Florist, Fresh Art, Garden Gate Shop, Ladue Florist, Montano Grant, Studio P, twigs and moss, Wildflowers, and more.

Chanukah Festival of Lights, Sunday, December 5, noon to 4 p.m.
The Garden's traditional Chanukah celebration features festive music and a menorah-lighting ceremony. Puppeteers, storytellers, and musicians tell the story of the miraculous oil lamp. Special Chanukah merchandise will available in the Garden Gate Shop and from specialty vendors.

Santa Weekend, Saturday–Sunday, December 11–12, 2 to 6 p.m.
All visitors are invited to greet Santa in Monsanto Hall and enjoy musicians and carolers performing holiday music both days this weekend. Special event pricing applies for nonmembers.

Special for members only: Ride the Gardenland Express! Bundle up for a holiday tram ride, enjoy coffee and hot cocoa while Mrs. Claus reads Christmas classics. Each child will receive a special North Pole souvenir. Tram rides at 2, 3, and 4 p.m. Holiday tram tickets are $10 each by reservation only. Please call (314) 577-5179 by November 15.

Kwanzaa First Fruits, Wednesday, December 29, noon to 4 p.m.
The Kwanzaa celebration of African-American heritage and culture at the Garden centers on the feast table of the harvest and the seven sustaining principles, and features storytelling, craft and jewelry workshops, and authentic African drumming and musical performances.

NEWS

PHOTO BY JOSH MONKEN

Potential buyers check out Botanical Heights display homes at 39th and Blaine.

Botanical Heights in the News

On August 13, the new Botanical Heights development made local headlines as dozens of people lined up overnight to get first pick of the new lots. By days' end, 50 people, including eight city police officers and two firefighters, had signed contracts on homes ranging from $129,000 to $300,000. The Botanical Heights development is slated to include 190 single-family homes—three options are available—with large areas dedicated to green space. Two styles of housing are open for viewing at developer McBride & Son's display homes at 39th and Blaine Avenue, and the third is nearing completion. "Botanical Heights will become the most attractive neighborhood in St. Louis," says Rick Sullivan, CEO, McBride & Son. "This has been a grassroots project from the start, working with residents of McRee Town, Tiffany, Shaw, and Southwest Garden neighborhoods over the last five years," says Darryl T. Jones, President of the Garden District Commission board.

Neighborhood revitalization is a major component of the Stewards of the Earth Campaign. Already, the Garden has assembled nearly $13 million from federal, state, and local public sources to support revitalization, but seeks additional private gifts to attain the campaign objective of $3 million.

PHOTO BY ELIZABETH MCNULTY

Workers install a section of the restored fence.

Mending Fences

Visitors to the Garden this spring and summer may have noticed ongoing construction in the Victorian Area. The nearly 120-year-old fence surrounding Garden founder Henry Shaw's mausoleum had decayed to the point of collapse, and work was underway to replace fence sections as part of the Stewards of the Earth campaign improvements. As is so often the case in historical renovation, the projected six-month project turned into over a year's worth of work when it was discovered that all of the post footings had deteriorated and required redigging and replacement. When workers stripped the old fence to the original paint coat, it was found to be dark green, and so the new replica fence was painted to match.

Shaw kept meticulous business records, and the Garden's Archives today still hold his original 1876 receipt from Shickle, Harrison & Co. for the fabrication of the fence railing at a cost of $660. The careful historically accurate fabrication and installation of the new wrought-iron fence cost $250,000 dollars. Naming opportunities such as these exist throughout the Garden. If you are interested in helping to preserve the history of Shaw's garden, call the Development Office at (314) 577-5120.

Best of Missouri Market Thank You

The 13th annual Best of Missouri Market was a great success with nearly 120 vendors offering specialty items from around the region. Once again, we extend our appreciation to the Market's co-chairs, Nora Stern and Ellen Dubinsky, the Members' Board, and all of our volunteers and staff. Special thanks to our sponsors: Schnuck Markets, Inc., Central States Coca-Cola Bottling Company, Commerce Bank, Edward Jones, Enterprise Rent-A-Car, and KMOX. We would also like to thank the Girl Scout Council of Greater St. Louis, Fabick Power Systems, The May Department Stores Foundation through the generosity of The May Department Stores Company and its Famous-Barr, Lord & Taylor, and David's Bridal divisions, Sachs Electric Company, Spicer's 5 & 10 Inc., and our advertisers.

PHOTO BY JUSTIN VISNESKY

LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

MEMBERS RECEIVE 20% OFF Nov. 3–6 & Dec. 8–12

4474 Castleman, St. Louis, MO 63110
(corner of Shaw and Vandeventer) • (314) 577-0891
New Shop Hours: Tues. through Sat.: 10 a.m. to 4 p.m.;
Sun.: noon to 4 p.m. (Thanksgiving to Christmas);
Closed in January. All proceeds benefit the Garden.

Siberian stone pine from *A Description of the Genus Pinus* (London: 1803)

Rare Books, Rare Opportunity

This summer, "The Illustrated Garden" exhibition at the Saint Louis Art Museum presented to the public for the first time the treasures of the Missouri Botanical Garden's rare book collection. The colorful beauty of these images—as well as their rarity—drew over 55,000 admirers. The show was "among the Saint Louis Art Museum's most popular and highly attended exhibitions," says Kay Porter, the museum's Director of Community Relations.

Many illustrations in the show were displayed as individual sheets because the books containing them had been disbound in order to undergo conservation. This May, the Institute for Museum and Library Services (IMLS) awarded the Garden a grant to partially support a detailed condition survey of much of the rare book collection. The one-year grant will result in a professional evaluation and report on the general condition of 5,000 volumes, including first editions of Charles Darwin's On the *Origin of Species* and Carl Linnaeus's *Species Plantarum* (1753). Once the condition is known, the Garden hopes to establish priorities for conservation.

The Ellerman Challenge

Since 1994, library volunteers have cared for these fragile volumes without the help of a professional conservator. One of these volunteers, the late William Ellerman, contributed $250,000 matching funds toward the endowment of a conservator at the library. In addition, the Garden has raised $80,000 for this position and needs to raise an additional $170,000 to make this staff position a reality. You can help! If you are interested in helping preserve these treasures for future use in science, history, and art, please call the Development Office at (314) 577-5120.

Garden Honors

Dr. Thomas Croat

PHOTO BY DOROTHY BAY

Dr. Thomas B. Croat, the Garden's P. A. Schulze Curator of Botany, has been awarded the David Fairchild Medal for Plant Exploration by the National Tropical Botanical Garden. Croat was honored for his exploration and innovation in plant discovery, cultivation of "new and important plants that hold significant promise as agricultural or horticultural varieties," and his role in rare and endangered plant species conservation. Croat has also been selected to receive the 2004 H. W. Schott Award for Excellence in Aroid Research from the International Aroid Society, Inc., in honor of his continuous contributions to the study of aroids for more than three decades. A Garden employee since 1967, Croat is considered one of the world's leading experts on the plant family Araceae. He has traveled to numerous tropical countries for plant exploration, described over 450 new species, and collected over 90,000 plants throughout his distinguished career.

Dr. Peter Raven

PHOTO BY TRENT FOLTZ

Dr. Peter H. Raven, director of the Missouri Botanical Garden since 1971, has been awarded the Australian and New Zealand Association for the Advancement of Science's prestigious scientific award, the ANZAAS Medal. He is the first award recipient from outside of Australia and New Zealand. Raven was honored for his contributions in promoting public awareness of science and the importance of biodiversity, and for his contributions to Australasian science through taxonomic work on the Onagraceae (the Evening primrose family); for pioneering the synthesis of Southern Hemisphere biogeography and tectonic history; and for the promotion of science through inspiring public lectures during visits to Australia. "Peter Raven is one of the most insightful botanists and conservationists of our age and has made major contributions to knowledge of Southern Hemisphere floras," said Associate Professor Paul Adam, ANZAAS chair.

Dr. Luther Williams

CIURTESY MBG EDUCATION

Dr. Luther Williams, the Garden's William T. Kemper Director of Education and Interpretation, has been selected as one of the "50 Most Important Blacks in Research Science" for 2004 by *Science Spectrum* magazine. The distinction honors African Americans for "lifelong work in making science part of global society." The annual listing upholds the winners' accomplishments as examples of the important contributions made to science by a small yet influential core of African Americans. Dr. Williams joined the Garden in August 2001, and has become the driving force behind the Garden Education Compact, a collaborative effort with St. Louis city schools aimed at developing high-performing math and science teaching and learning. Williams's previously held positions include Assistant Director of Education and Human Resources for the National Science Foundation.

GARDEN AT LARGE

The Garden's family of attractions in the St. Louis area includes the EarthWays Home in Grand Center, the Butterfly House in Chesterfield, and the Shaw Nature Reserve in Gray Summit.

SHAW NATURE RESERVE

An Ideal Place

Now in its second year of operation, the Dana Brown Overnight Education Center continues to welcome visitors and school groups in a variety of public and private programming. The seemingly rustic restored log-cabin buildings feature modern heating, cooling, and restroom facilities, and are fully accessible. Conveniently situated on the Reserve within walking distance of the wetlands, prairie, Meramec River, and several trails, the Center is ideal for visitors who would like to conduct teambuilding field exercises or simply to experience the natural world. Call today to schedule your retreat, business meeting, conference, youth group, school field trip, or summer science program. After educational prerogatives are met, space is available on a first-come, first-served basis by reservation, and tends to book up quickly. Call (636) 451-3512 ext. 6081 for information and pricing.

PHOTO BY JACK JENNINGS

Dana Brown Overnight Education Center lodge in winter.

Holiday Time

Shaw Nature Reserve staff and volunteers will be "decking the halls" of the Bascom House for the holiday season. Private collections of antique toys and teddy bears will accompany Christmas trees and garlands throughout the house from November 20 through January 2. The Bascom House is open Tuesday through Sunday, 10 a.m. to 4 p.m. And don't miss our very special guest from the North Pole, when Santa Claus stops by Saturday, December 11, from 10 a.m. to noon. Be sure to bring your cameras!

Please note: the Shaw Nature Reserve will be closed to the public on Saturday and Sunday, December 4 and 5.

Shaw Nature Reserve
Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
(636) 451-3512
www.shawnature.org

EARTHWAYS HOME

PHOTO BY DALE DUFER

On June 17, 2004, a tenth anniversary reception honored EarthWays Home founders. From left: Ralph Eglin Wafer, Jerry Klamon, Deborah Chollet-Frank, Dr. Raven, Alex Bornstein, Ann Rivers Mack, Will Borders, Susannah Fuchs (with son Douglas), Andy Kanefield.

EarthWays Home
3617 Grandel Square
St. Louis, MO 63108
(314) 577-0220
www.earthwayshome.org

Ten Years and Growing

Tenth anniversary events throughout 2004 at the Garden's EarthWays Home have commemorated a decade of accomplishments with vigorous new educational outreach. These efforts are investments in a sustainable, greener world—and we plan to keep them growing!

Visitors of all ages continue to experience many ways everyone can help safeguard our limited natural resources by reducing, reusing, recycling and using energy more efficiently. Generous gifts from area businesses, government agencies, and private foundations have made possible new exhibits and building improvements including cork and bamboo flooring, a green-roof pavilion, high-efficiency indoor and exterior lighting, and native plant landscaping.

Vivid new webpages are dedicated to promoting program offerings and a wealth of practical information and services. Visit us online at www.earthwayshome.org, come with a friend for a tour on one of our monthly Open House Days (see calendar for details), or plan a date to bring your church, club, school or professional group for a tour of St. Louis' center for "green" conversations, the EarthWays Home.

Evening at the EarthWays Home

Thursday, November 18, 7 to 9 p.m.

"Conversations on Energy Costs" will feature a moderated discussion with representatives of the coal, petroleum, natural gas and electrical industries. No charge, but reservations are required; call (314) 577-0220.

The Butterfly Page

PHOTO BY JOSH MONKEN

Co-Chairs Wing Ding 2004: Mr. and Mrs. William C. Rusnack; Mr. and Mrs. James G. Berges; and Mr. and Mrs. Scott C. Schnuck.

Wing Ding a Resounding Success

Thank you to everyone who contributed to Wing Ding 2004. The evening of October 9 was a spectacular success thanks to the leadership of co-chairs Catherine and James Berges, Marsha and William Rusnack, and Julie and Scott Schnuck, and to the enthusiasm of the gala committee, including auction chairwoman, Susan Gelman. Special thanks to Emerson, our lead sponsor, and to our sponsors Anheuser-Busch Companies, Inc., BSI Constructors Inc., Commerce Bank, Edward Jones, Fleishman-Hillard Inc., Fox Family Foundation, The Gall Family Foundation, IR Climate Control Sector/Hussmann Corporation, Laclede Gas Company, The May Department Stores Company and its Famous-Barr, Lord & Taylor and David's Bridal divisions, McBride & Son Enterprises, Inc., Midwest BankCentre, Pfizer, Inc.–St. Louis Laboratories, Mr. and Mrs. William C. Rusnack, Sachs Properties, Inc., Sansone Group, Schnuck Markets, Inc., and U.S. Bank.

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

Chez Madame Butterfly

This holiday season, don't miss this truly unique opportunity: the first-ever Madame Butterfly holiday sale open to Garden members too. From Tuesday, November 30 to Sunday, December 5, all Garden members will receive 20% off regularly priced items, including a fantastic selection of amber jewelry. The featured sale item is a limited-edition Butterfly House cotton tapestry throw pictured at right.

Tributes

July–August 2004

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-0297.

In Honor of Gertrude Moldafsky's 90th Birthday
Maxine Bromberg

In Honor of Suzie and Ray Spears on the marriage of their children Dan and Cheryl
Phyllis and Paul Amsterdam

In Memory of Bridget
Nancy Wobbe

In Memory of Joel Nicolas Duss
The Sokolowski Family

In Memory of Charlotte Gitt, Dear Mother
Jules and Shirley Snitzer

In Memory of Karl Lodholz
Helen VanDerhyden

In Memory of Mrs. Betty Meredith
Debbie Penning

Pavers July–August 2004

For information on honoring a loved one with a paver, please call the Development Office at (314) 577-5154.

Bill Halbrook
Gail G. Halbrook

Allex K. Perigan
Tonya Hahne

Brennan Cole Bronnbauer
Tonya Hahne

Janice and Greg Davis
Irene, Paula and Amy Dustman

Loving Mom & Grandma
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Bob Munro
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Grandma Sarah and Kyla
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Edwina DuBois

The Loesch Family
Bill Loesch

For always Helen, 1953–2003
Linda S. Biekel

Ryan Cullums
Pamela Cullins

Steve & Pat Baker
Jim Powers

Thecil Deitchman
Sally, Dennis, Nancy, Rick and Max

Robert Deitchman
Sally, Dennis, Nancy, Rick and Max

Anita Grossman
Sally, Dennis, Nancy, Rick and Max

Jane Grossman
Sally, Dennis, Nancy, Rick and Max

Mak Shulist
Andi Sumner

Florence Cohen
James E. Marquis

Casey Galasso
Bill Kortkamp

George William Pronger
Douglas & Suzy Adams

Mari Éowyn Lamlech
Rebecca Brower

Amy E. Grant
Joanie F. Fedyk

Bob Munro
Barb & J.B. Stultz

Baby Spencer and Nicholas
In Memory 04

Alexis and Clayton
Mr. and Mrs. Donald Christo

M&M Hensiek
M&M Meine
Anna M. Meine

Bob and Norma Downey
Nora J. Downey

WINTER WONDERLAND

Stewards of the Earth

the Campaign for the Missouri Botanical Garden

ABOVE: Tower Grove House renovations are ongoing; the mausoleum wrought iron fence has been restored.

Preserving Shaw's Legacy

Replacing the wrought iron fence in the Victorian Area is but one example of the preservation of Henry Shaw's legacy. Because Henry Shaw invested in quality, the fence and structures he bequeathed to us have survived more than 120 years. Through the Stewards of the Earth campaign, the decayed portions of the fence surrounding Shaw's mausoleum are being replaced with exact replicas and the other sections are being restored.

As the Garden's visitors and supporters, we have inherited an asset of rare beauty from Henry Shaw. An exhaustive engineering study in 1998 determined that investments in preservation and improvement will be required if we are to fulfill our role of stewardship.

HISTORIC PRESERVATION: At the Tower Grove House, Henry Shaw planned his garden. Its furnishings and collections provide visitors with an understanding of the Victorian era that shaped Shaw's faith in science and views on nature, as well as artifacts from the Garden's distinguished history. More than 150 years old, the venerable house required extensive repair and renovation. Gifts to the Campaign have funded replacement of the roof and restoration of the exterior.

Your continued support will fund interior renovations that will permit Tower Grove House to be reopened to Garden visitors.

Campaign donors are preserving other historic structures, as well. The Shoenberg Administration Building (which includes Shaw's former townhouse) has been repaired and the exterior restored to the beauty of its original construction.

Your gifts will support the restoration of historic brick and stone structures—walls and pathways—that lend their distinctive beauty to the Garden.

Preserving Shaw's Legacy CONTINUED:

ABOVE: Repairs and improvements to the Garden infrastructure are a necessity. The Stewards of the Earth campaign helps make them a reality.

GARDEN IMPROVEMENTS: The Garden's many facilities and attractions were designed to accommodate no more than 100,000 visitors per year. Visitation has increased seven-fold, and now these structures require repair, replacement and upgrades. Campaign gifts have funded many improvements, including repairs to the Ridgway Center, Shoenberg Temperate House, Japanese Garden, Emerson Conservation Center, and administrative buildings.

Your gifts are urgently needed to continue improvements. Projects under way and needed include:

Fountain and waterfall repairs.

Walkway repairs.

Renovation of the Spink Gallery in the Ridgway Center.

Exterior lighting and paving around the Ridgway Center and Shoenberg Fountain Plaza.

ENERGY EFFICIENCY: The Garden's commitment to sustaining the environment begins at home. It must replace antiquated and worn out mechanical systems with modern, energy-efficient and environmentally friendly equipment. The Stewards of the Earth campaign has replaced or updated such equipment as heaters, coolers, fans, boilers, skylights.

Your gifts will fund critical replacements and upgrades to the mechanical systems, ceiling and lighting in the Ridgway Center.

Gifts supporting the preservation, improvements and energy efficiency can provide donors with naming opportunities.

To find out how you can help sustain Henry Shaw's legacy, call Patricia Arnold at (314) 577-5120.

Environmental Support

ABOVE: The Environmental Support Complex will provide facilities to accommodate growing numbers of visitors at the Shaw Nature Reserve.

Modernization of the Environmental Support Complex will help build the Shaw Nature Reserve into a national model for conservation, ecological restoration, environmental education and interpretation.

Over the past 20 years the Nature Reserve has distinguished itself for restoring its rolling cornfields to natural habitats. The 2,400 acres of native Missouri wetlands, savannahs and open woodlands provide a natural laboratory for the Nature Reserve's programs in research, education, and horticultural display.

The Nature Reserve has become a major attraction, with annual visitation projected to double from its present level of 60,000 per year. Through the Stewards of the Earth campaign, the Garden seeks to invest $5 million to upgrade and improve the facilities, including $2.6 million for the renovation of the Environmental Support Complex.

The existing complex was built in 1927, when its major focus was growing orchids. By modern standards the support facilities are substandard and no longer serve the greatly expanded activities of the Shaw Nature Reserve. The original 4,050 square-foot facility will be renovated and expanded with a 1,050 square foot addition.

The new support complex will provide space for education, maintenance, horticulture, and ecological restoration. It will house meeting space for visitors, work and plant preparation rooms, volunteer work areas, restrooms, equipment storage and repair space, offices and a lunchroom.

Learn more about improvements at the Shaw Nature Reserve by calling the Development Office at (314) 577-5120.

Make Your Gift Count

We are grateful to donors for their contributions to the Stewards of the Earth campaign for the Missouri Botanical Garden.

All gifts and pledges directed to campaign objectives and payable within a period of five years or less will count toward the campaign goal. There are many ways to make a gift:

Outright gifts include cash, check, or credit card. They are the easiest and most direct way to benefit the Garden, and are tax deductible to the full extent allowed by law.

Securities entitle you to a charitable deduction for the fair market value of the donated asset, and you may avoid paying capital-gains tax you would otherwise pay upon the sale of the appreciated securities.

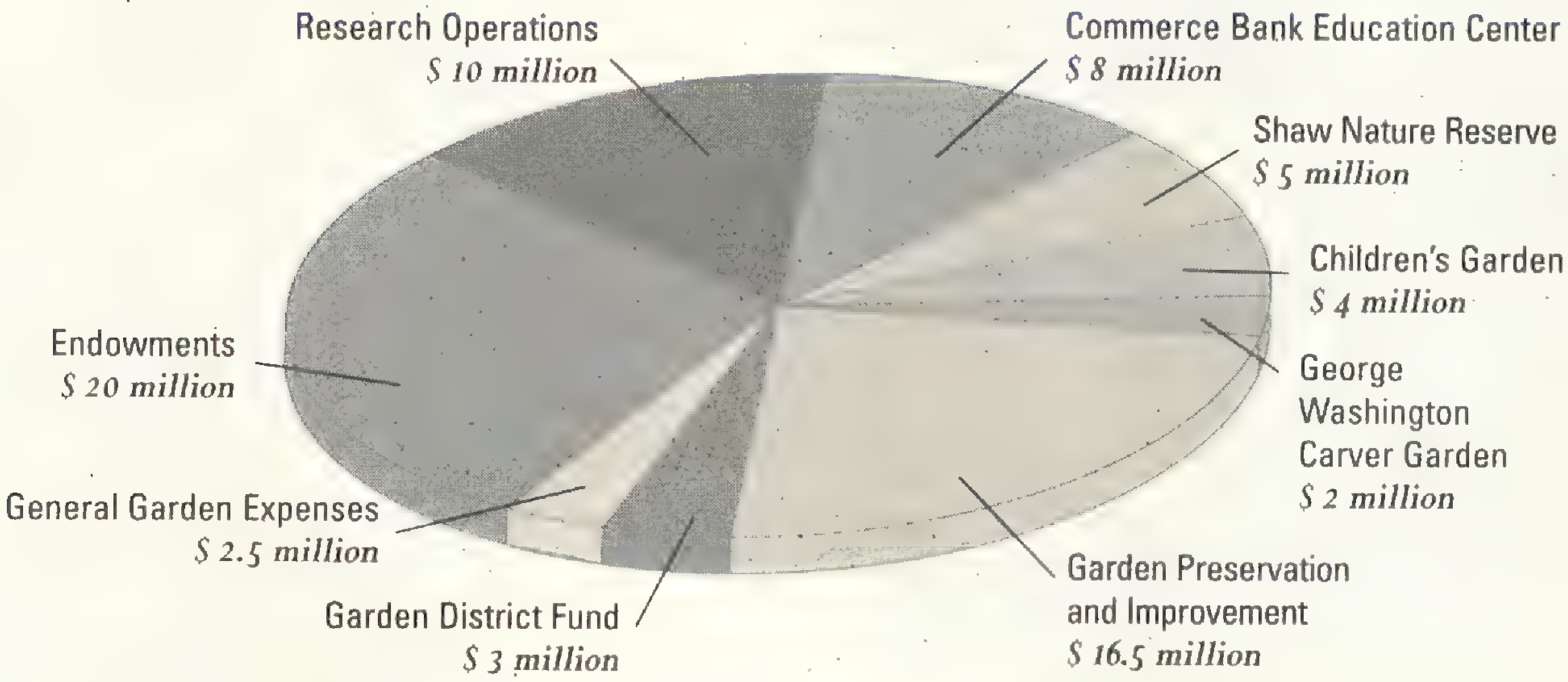
Planned gifts may allow a donor to make a sizable gift to the Garden and continue to receive income from the gift for his/her lifetime. It will also generate a charitable income tax deduction in the year of the gift.

Charitable bequests in your estate plans may be committed to the endowment objective of the campaign, specified as a sum, a percentage, or in specific assets such as real estate. Such bequests are not subject to estate or inheritance taxes, significantly reducing the tax burden. The value of the bequest may be deducted when the taxable estate is determined, and there is no limit to the deduction.

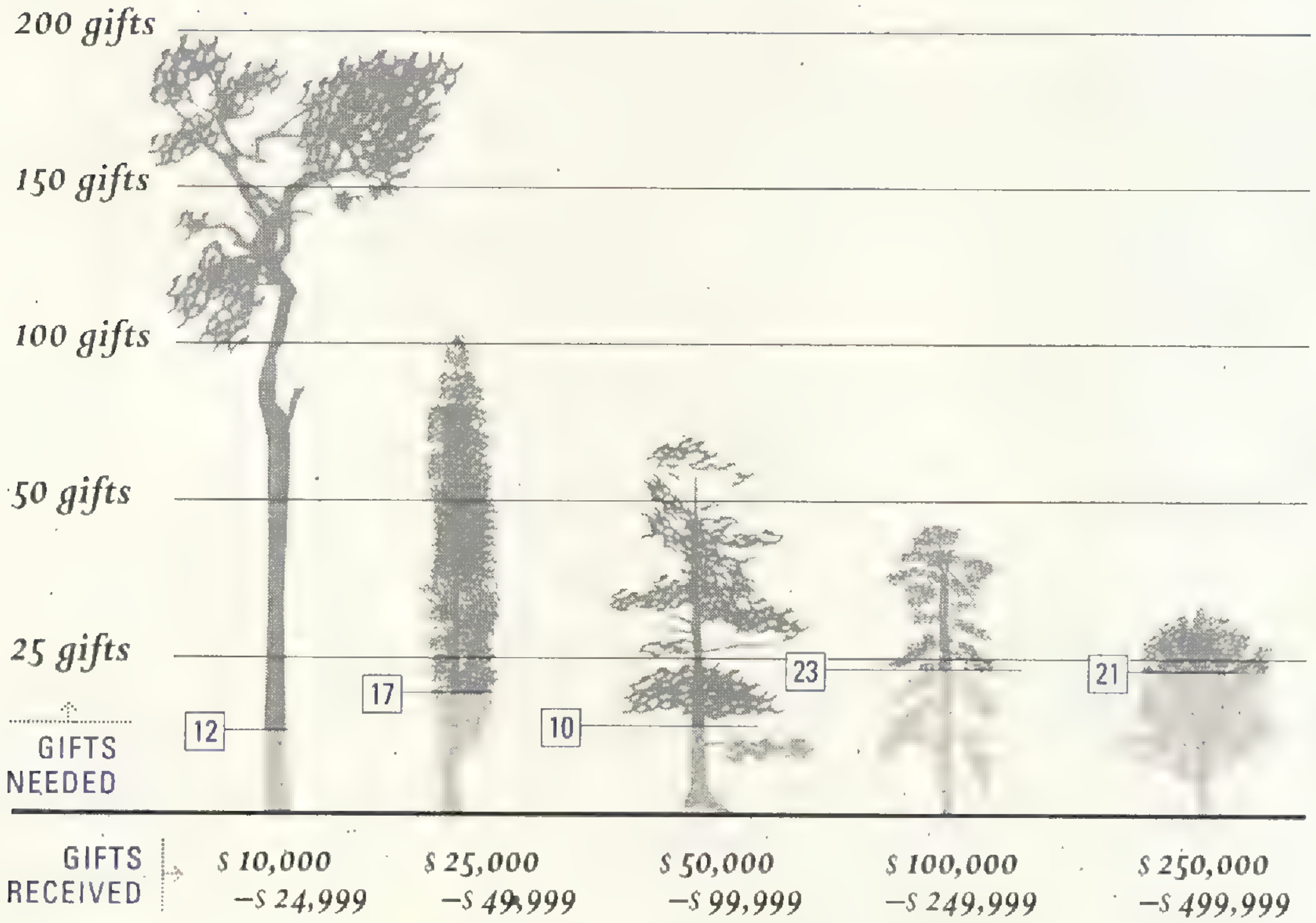
We recommend that all those considering a commitment to the Garden do so in consultation with his or her own legal or financial advisor. Donors should pay particular attention to annual deductibility limits to ensure maximum tax effectiveness of each gift.

For more information, please contact the Development Office at (314) 577-5120.

Campaign Goals



Campaign Progress: COMMUNITY PHASE



This chart represents gifts acquired and needed at the mid-range level . Your participation is greatly appreciated.

Stewards of the Earth

We are grateful to donors for their contributions to the Stewards of the Earth campaign for the Missouri Botanical Garden through September 15, 2004.

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$10,000,000 or more

Mr. and Mrs. Jack C. Taylor

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You can help!

"This drive provides a unique opportunity to participate in the future of the Garden," says Director of Development Patricia Arnold. For more information on how you can help, please contact her office at (314) 577-5120.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166-0299
(314) 577-5100 • www.mobot.org

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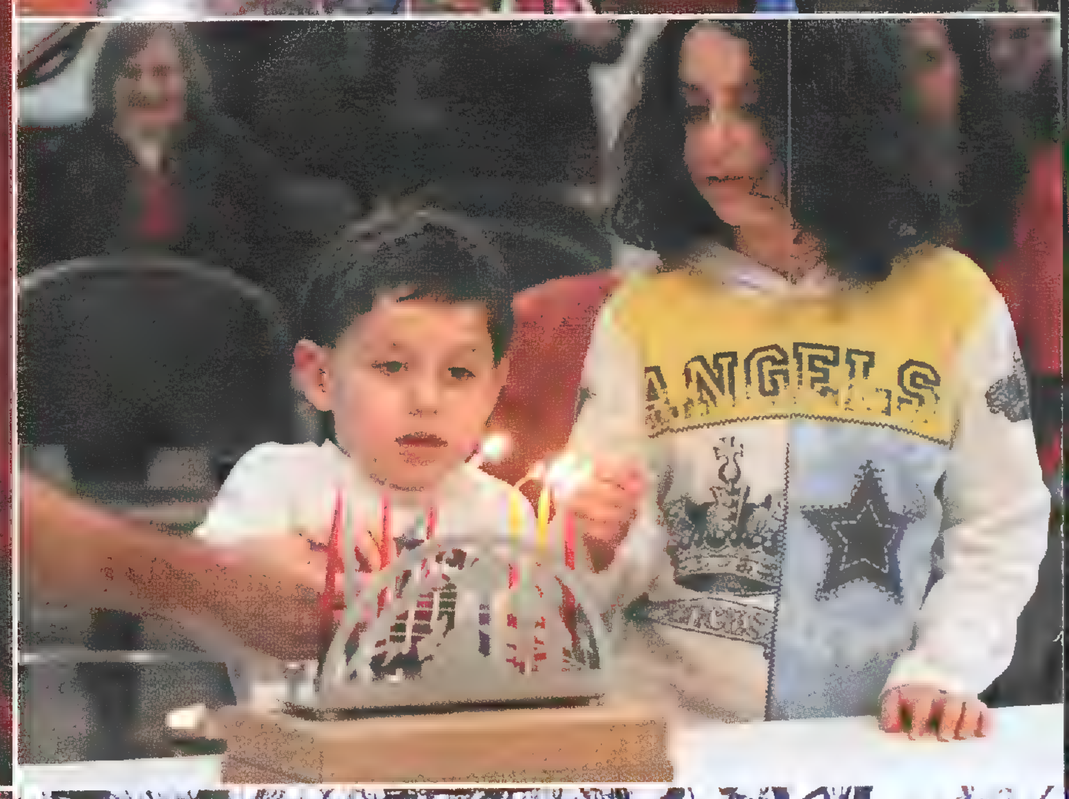
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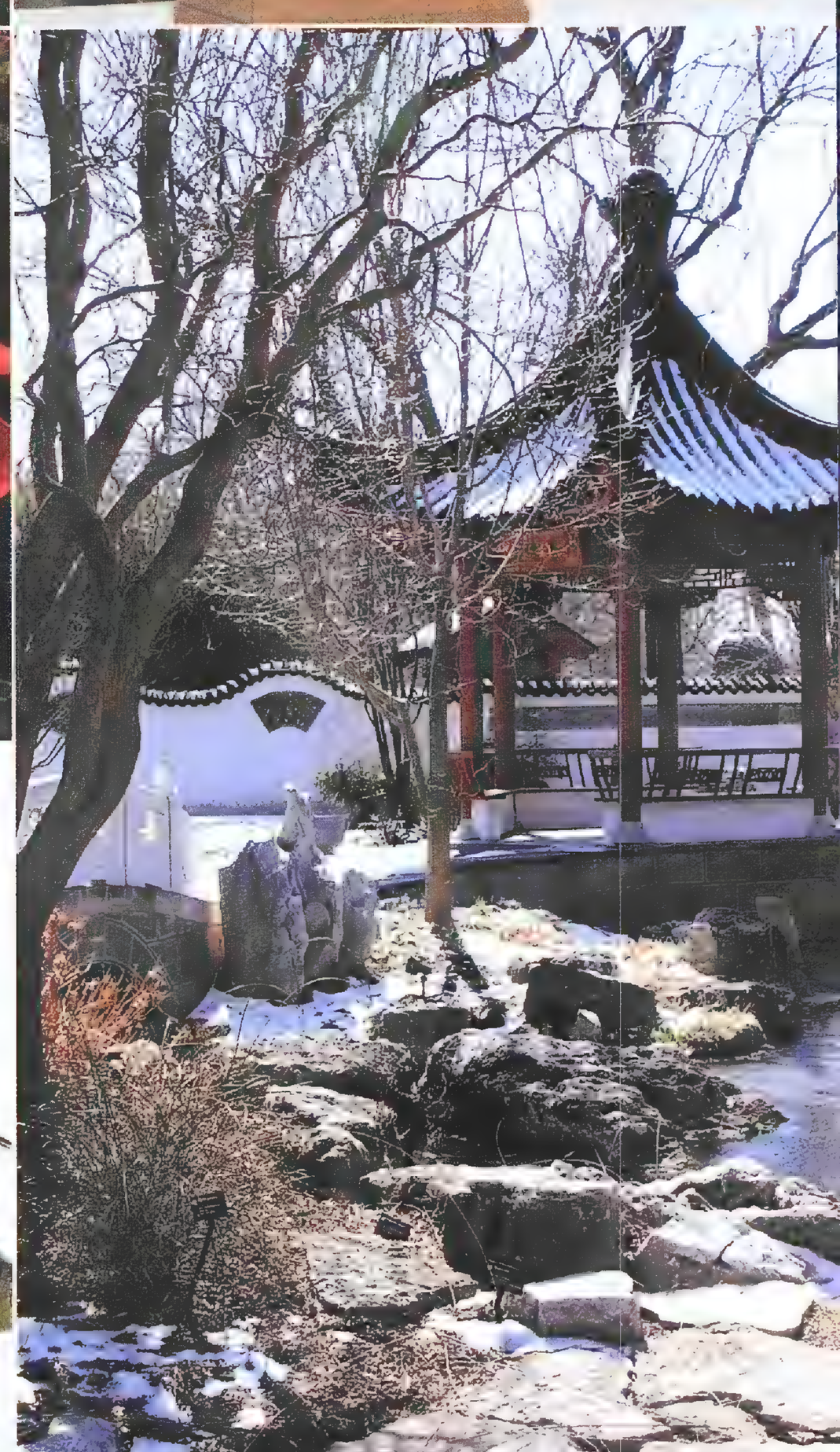


PHOTO BY LISA FRANCIS

FROM THE KEMPER CENTER FOR HOME GARDENING...

WHAT TO DO IN THE GARDEN THIS MONTH

November (all month)

Vegetables: Till under any unused, finished compost to improve soil. Prevent insects or diseases from overwintering by removing and composting all plant debris and tilling the garden to expose insect pests to winter cold.

Fruits: Keep mulches pulled back several inches from the base of fruit trees to prevent bark injury from hungry mice and other rodents.

Ornamentals: Continue watering evergreens until the ground freezes. Soils must not be dry when winter arrives. Now is the ideal time to plant trees and shrubs. Before digging the hole, prepare the site by loosening the soil well beyond the drip line of each plant. Plant trees and shrubs at the depth they grew in the nursery and no deeper. Remove all wires, ropes, and non-biodegradeable materials from roots before back filling. Apply a 2 to 3-inch mulch layer, but stay several inches away from the trunk. Keep the soil moist, not wet, to the depth of the roots. Remove the spent flowers and foliage of perennials after they are damaged by frost.

Miscellaneous: Now is a good time to collect soil samples to test for pH and nutritional levels. Roll up and store garden hoses on a warm, sunny day. It's hard to get a cold hose to coil into a tight loop. To prevent injury to turf grasses, keep leaves raked up off of the lawn. Continue mowing lawn grasses as long as they keep growing. A final fall application of fertilizer can be applied to bluegrass and fescue lawns now.

Week 1

Fruits: Fallen and spoiled fruits should be buried. Harvest pecans when they start to drop from trees. Shake nuts onto tarps laid on the ground.

Ornamentals: Plant tulips now. Observe and choose nursery stock based on fall foliage interest.

Week 2

Ornamentals: Newly planted broadleaf evergreens such as azaleas, boxwood, and hollies benefit from a burlap screen for winter wind protection. Set screen stakes in place before the ground freezes.

Miscellaneous: Be sure to shut off and drain any outdoor water pipes or irrigation systems that may freeze during cold weather. Clean house gutters of leaves and fallen debris before cold wet weather sets in. Rake up and collect fallen leaves. These can be plowed under directly to enrich garden soils or allowed to slowly decay in large piles. Set up bird feeders. Birds appreciate a source of unfrozen drinking water during the winter.

Week 3

Vegetables: Root crops such as carrots, radishes, turnips, and Jerusalem artichokes store well outdoors in the ground. Just before the ground freezes, bury these crops under a deep layer of leaves or straw. Harvest as needed during winter by pulling back this protective mulch.

Fruits: Mulch strawberries for winter with straw. This should be done after several nights near 20 degrees, but before temperatures drop into the teens. Apply straw loosely, but thick enough to hide plants from view. Commercial tree guards or protective collars made of 18-inch high hardware cloth will prevent trunk injury to fruit trees from gnawing rabbits and other rodents. A dilute whitewash made from equal parts interior white latex paints and water, applied to the southwest side of young fruits trees will prevent winter sun scald injury.

Miscellaneous: Winter house plants basics: reduce or eliminate fertilizer until spring. Shorter days mean slower growth. Slower growth means less frequent watering. Plants in plastic pots need less water than those in clay pots. Plants in cooler rooms need less water and grow slower than those in warm rooms.

Week 4

Ornamentals: Covering garden pools with bird netting will prevent leaves from fouling the water. Oxygen depletion from rotting organic matter can cause winter kill of pond fish. Take steps to prevent garden pools from freezing solid in winter. Covering pools with an insulating material, or floating a stock tank water heater in the pond, will lessen the chance of ice damage.

Roses should be winterized after a heavy frost. Place a 6 to10-inch deep layer of mulch over each plant. Top soil works best. Prune sparingly, just enough to shorten overly long canes. Climbers should not be pruned at this time. Mulch flower and bulb beds after the ground freezes, to prevent injury to plants from frost heaving.

December (all month)

Houseplants: On cold nights, move houseplants back from icy windows to prevent chilling injury. Overwintering geraniums like bright light and cool temperatures. Keep soils on the dry side. Be sure newly purchased indoor plants are well protected for the trip home. Exposure to icy temperatures for even a few moments may cause injury. Water houseplants with tepid water. Cold tap water may shock plants.

Ornamentals: Be sure the root zones of azaleas and rhododendrons are thoroughly mulched. Any organic material will do, but mulches made from oak leaves, shredded oak bark, or pine needles are preferred.

Week 1

Miscellaneous: Clean and oil all garden hand tools before storing for winter. All power equipment should be winterized before storage. Change the oil and lubricate moving parts. Either drain fuel systems or mix a gas stabilizing additive into the tank. Apply mulches to bulbs, perennials, and other small plants once the ground freezes. If you feed rabbits corn or alfalfa, they may leave fruit tree bark unharmed.

Week 2

Houseplants: Holiday Poinsettia basics: sun for at least half the day, keep away from drafts, registers, and radiators. Night temperatures in 50s or low 60s; days at 70 degrees. The soil should dry only slightly between thorough waterings. Discard the drainage. Be sure to punch holes in decorative foil wraps to prevent soggy soil conditions.

Ornamentals: Hollies may be trimmed now and the prunings used in holiday decorations. Only female holly trees bear the colorful berries. There must be a male tree growing nearby for pollination, if fruits are desired. Christmas trees hold needles longer if you make a clean, fresh cut at the base and always keep the trunk standing in water.

For additional information on any of these topics, visit the Kemper Center for Home Gardening or check out our Gardening Help section at www.mobot.org.

FEATURED PLANT OF MERIT

PHOTO BY ALAN STENTZ

Lacebark Pine

Pinus bungeana

A slow-growing conifer, reaches 30-50 feet tall in about the same number of years. The exfoliating bark on mature trees (age 10 and up) peels, somewhat like a sycamore, to reveal an underlying patchwork of white, olive, light purple, and silver, eventually becoming milky white. Attractive dark green needles in bundles of three, small 2-inch yellowish-brown cones, and the signature bark give this airy pine year-round ornamental interest. Often grown in a shorter multitrunked form. Best grown in full sun and well-drained soil or elevated beds.

Plants of Merit™ are selected by Garden staff for outstanding qualities and dependable performance in the St. Louis area. View all current PMs on the website: www.mobot.org/gardeninghelp.

PLANTS IN BLOOM

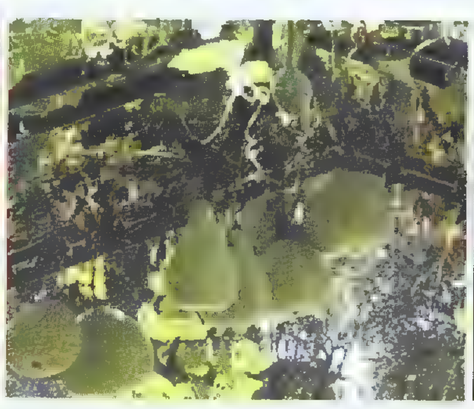
for a complete list of plants in bloom go to www.mobot.org

November

fragrant olive

ornamental grass

crabapple



hardshell gourds

fall color

December

amaryllis

christmas cactus

poinsettias

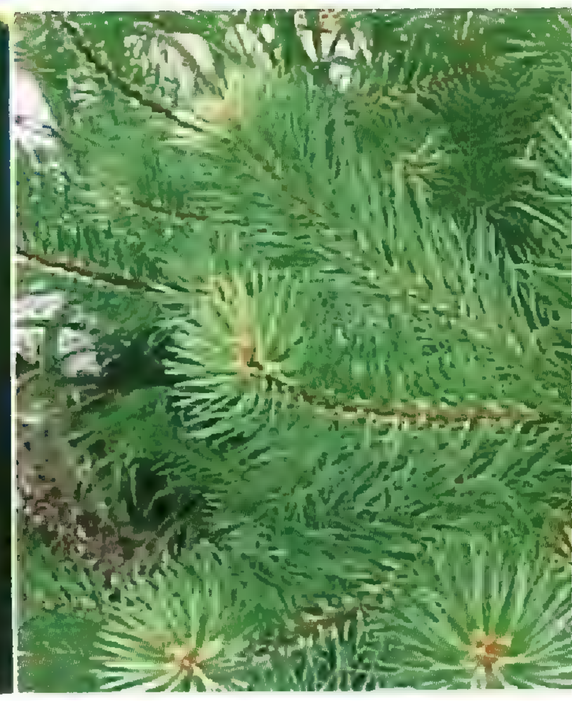
cyclamen

holly

A CHRISTMAS TREE PRIMER

Fraser Fir

Balsam Fir



Evergreens have been used as a symbol of life and hope in winter since ancient times. Romans decorated with evergreen boughs during Saturnalia, the winter festival in honor of the god of agriculture. Druids used holly to signify eternal life, and Vikings to symbolize the return of the sun god. Usage of an evergreen tree for Christmas evolved in the 16th century, but the tradition wasn't popularized in the English-speaking world until Queen Victoria's German husband, Albert, brought one to Windsor Castle in 1834.

Today, the tradition of decorating a Christmas tree lives on for about three-quarters of the American population, and the number of people choosing real trees is growing. While consumers once feared the depletion of natural forests, Christmas trees are now a farmed commodity just like corn or pumpkins, and a renewal, recyclable resource. In the U.S. alone, over one million acres are devoted to Christmas tree production, and these fields help stabilize soil, protect water supplies, and provide refuge for wildlife while creating scenic green belts in all fifty states (yes, even Hawaii). The average Christmas tree growth cycle is seven years before harvest; growers plant two or more seedlings for every one cut. And once the holiday is over, these pines, spruces, and firs make excellent mulch.

So of the approximately 30 million trees sold each year in some twenty different varieties, how do you choose the right tree? "Different varieties have different characteristics," says Steve Drake, CEO of the National Christmas Tree Association. "For most people, though, it's really a question of what they grew up with."

Pines

Who's Tops

Most Popular Trees	Biggest Growers
Balsam fir (*Abies balsamea*)	Oregon (tops with 8 million)
Douglas fir (*Pseudotsuga menziesii)*	North Carolina
Fraser fir (*Abies fraseri*)	Pennsylvania
Noble fir (*Abies procera*)	Michigan (boasts the most varieties: 13)
Scotch pine (*Pinus sylvestris*)	Washington
Virginia pine (*Pinus virginiana*)	Wisconsin

Pines feature long needles (over 1.5 inches) in small bundles of 2–5 per cluster. They are the fastest growing of all Christmas trees and have steadily gained in popularity since the 1950s. The two pines most prominently grown as plantation Christmas trees in Missouri are scotch pine and eastern white pine.

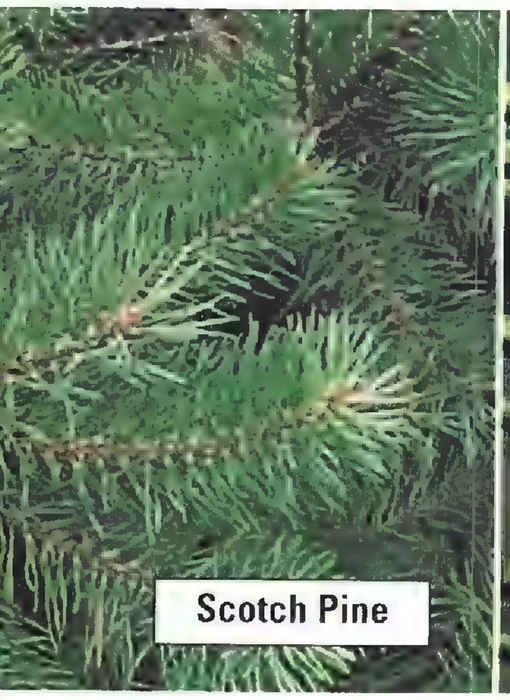
Scotch Pine (*Pinus sylvestris*): Native to Europe. Grows in a variety of habitats, and this flexibility makes it particularly attractive and useful as a durable Christmas tree. Needles 1.5–3.5 inches long in clusters of two. Conical shape. Color overall dull blue-green. Sturdy branches, excellent needle retention, and lasting freshness make this a great Christmas tree. Branches should support ornaments of typical weight.

White Pine (*Pinus strobes*): Native to southeastern Canada, the Lake states, New England, and the Appalachian mountains south to Georgia. One of the principal timber woods in America. Needles 3–5 inches long in clusters of five. Sheared to a bushy shape. Color overall green. Popular as a Christmas tree for its soft needles and fair-to-good needle retention. However, the branches can be very brittle and will not support heavy ornaments. Bark is smooth and easily damaged.

Spruces

Spruces are popular Christmas trees because of their symmetrical shape and sturdy branches. Slow growers compared to pines, spruce also have a tendency to lose their needles sooner. Today, only the blue spruce is commonly cultivated in Missouri.

Blue Spruce (*Picea pungens*): An ornamental landscape tree, native North American that grows naturally in a small area in the central Rocky Mountains, the Colorado Blue Spruce makes an excellent living Christmas tree. Natural conical shape. Excellent needle retention. Waxy-coated needles give it a unique blue-gray appearance.



Firs

Often confused with spruces, firs have longer and softer needles which are two-sided and flat rather than four-sided and pointed like those of the spruces. Balsam, Douglas, and Fraser are the most commonly encountered Christmas varieties, although they are not commonly grown in Missouri.

Balsam Fir (*Abies balsamea*): One of 10 native American firs, Balsam occurs naturally in northern Minnesota, Michigan, New York, and New England on low, swampy land. Because of its pleasing evergreen smell, it is a very popular Christmas tree and commonly imported to the Midwest. Needle and color retention is excellent. Perhaps the most symmetrical tree amongst the evergreens. Needles are 0.5–1.25 inches long, flat, dark green, and usually rounded at the tips.

Douglas Fir (*Pseudotsuga menziesii*): A botanical puzzle with characteristics of spruces, firs, and hemlocks, Douglas fir is one of the most common timber trees in the west. The needles are soft and retained for weeks even in warm rooms. It also has a superior symmetrical bushy form. Lighter green color than most all other commercial Christmas trees.

Fraser Fir (*Abies fraseri*): Pyramid shape. The strong, upward-turned branches are densely covered with two-tone needles. The top side of the needle is dark-green to dark blue-green in color and the bottom side has a silvery appearance. Excellent needle retention and a pleasant aroma. Stong branches. Mostly produced in North Carolina. The branches are also used to make wreaths, swags, and Christmas roping.

Shopping Tips

If you choose to celebrate the season with a real tree, here are some tips to lengthen the enjoyment:

- Shake or bounce the tree on its stump to test for freshness. You should not see an excessive amount of green needles fall to the ground.
- Make a fresh, straight cut across the base of the trunk (about a quarter inch up from the original cut) and place the tree in a tree stand that holds a gallon of water or more.
- Keep the tree stand filled with water. A seal of dried sap will form over the cut stump in four to six hours if the water drops below the base of the tree, preventing the tree from absorbing water later when the tree stand is refilled. If a seal does form, another fresh cut will need to be made.
- A tree will absorb as much as a gallon of water or more in the first 24 hours and one or more quarts a day thereafter. Water is important because it prevents the needles from drying and dropping off and the boughs from drooping. Water also keeps the tree fragrant.
- Recycle your tree. Christmas trees make great mulch, so bring your holiday tree to the Garden's drop-off location. Call (314) 577-9555 for more information.

It's Alive!

A living tree is more than just a holiday decoration; it's an investment in your landscape and a permanent memory of Christmases past. If you're thinking of buying a living tree this year, here are some tips to plan a successful season.

- Dig the planting hole out in the yard before the ground freezes. Mulch and cover the backfill soil and the planting hole to keep them dry and unfrozen.
- Keep roots damp at all times and spray the tree with an antitranspirant to reduce needle moisture loss.
- Store the tree outdoors in a cool, shady, windless area until the last minute. Mulch the roots to prevent cold injury.
- Set the tree up in your coolest room away from heat sources for no more than one week.
- Plant outdoors promptly when the weather is mild and not excessively cold or windy.

BELOVED *BUXUS*

Called "man's oldest garden ornament" by the American Boxwood Society, boxwood has been held in human esteem for over three millennia, with the first recorded mention in an Assyrian inscription dating to 1100 B.C. From the "pleasure gardens" of ancient Persia and the landscapes of Greece and topiaries of Rome, to the formal gardens of Europe, the elegant beauty of boxwood has lent shape, structure, and evergreen foliage to any garden setting.

Native to Central Asia, Southern Europe and North Africa, boxwood was introduced to North America by European colonial settlers in the mid-1600s, and today, there are about 90 species and over 150 different cultivars known, exhibiting a wide variety of forms and foliage, most of which are notoriously difficult to grow in the Midwest.

The Blanke Boxwood Garden displays the Missouri Botanical Garden's outstanding collection. Interest in the genus here stems from the work of the late Edgar Anderson, former director of the Garden and a distinguished member of its scientific staff for 40 years. In 1969, Dr. Anderson established a test program at the Garden to identify hardy strains of boxwood collected from Asia and the Balkans, and today the Edgar Anderson Memorial Boxwood Garden, just east of the Blanke Boxwood Garden, is named in his honor.

The Garden's boxwoods are tended by horticulturist **Dan Moses,** who also teaches an occasional class on boxwood at the Kemper Center for Home Gardening. So if you enjoy the illustrious history, year-round greenery, and delicately medicinal fragrance of boxwood, but you live in St. Louis, follow Dan's recommendations for healthy hedges and splendid specimens.

Know Your Limitations

"Our fluctuating winter temperatures are the biggest danger," says Dan. "It's important to purchase the right variety from a reputable vendor." For sturdy boxwood hedgerows, Dan recommends two kinds: *Buxus microphylla* 'Green Velvet' if you prefer nice dark green foliage all year, or *B. microphylla* 'Wintergreen' which turns lightly bronze in winter.

Boxwoods come in some eight different shapes, from mounded dwarves to the tree-like arboreal, the gate-framing columnar or conical, and the bushy pyramidal. The shape may also be altered by pruning. For specimen plants in St. Louis, Dan recommends mound-shaped *B. sempervirens* 'Vardar Valley' and 'Green Mound,' both of which can be seen in the Boxwood and Japanese gardens. *B. sempervirens* 'Rotundifolia' is popular for its relatively quick growth and round shape. For columns, *B. microphylla* 'John Baldwin'—a wide column—or 'Dee Runk' which tends to grow taller and thinner—are best suited to our Midwestern winters.

Proper Placement

Since temperature fluctuations in winter are the biggest risk to boxwood health, Dan advises careful placement to avoid the St. Louis warm up/snap frost January cycle. For this reason, he cautions, never plant a boxwood with southern exposure where it is likely to get warmed up early in the year. Ideal locations are northeast, followed by northwest, and with plenty of air circulation, never too near an object or another plant.

Optimal growing conditions include a low-pH soil that is loamy and well-drained to 18 inches. It's not a bad idea to mix in some Turface or Claycon to our typically clay St. Louis soils. Boxwoods like sun with light shade, and they don't need much in the way of fertilizer. "Compost is the best for boxwoods," say Dan, but if you must, use only 6-6-6 or lower, and only apply in late spring. Water deeply in summer, if conditions are dry, but otherwise be prepared for some pruning and not much else for a while. Boxwood growing requires patience: many hedges and specimens do not reach their maximum potential for 30–40 years. "A really good, filled-in hedge requires a minimum of 3–5 years," says Dan.

Shear Madness

Trim your St. Louis boxwoods twice annually, once in April/May and then again in late May. A small touch-up the second week of June is also recommended. Prune with electric or hand shears for small-scale hedges, or double-sided gas shears for bigger perimeter hedges. If the ground is flat, you may opt to set up guidelines and use a line level just like the pros at Versailles. If, however, there is rolling terrain, prune by eye with an aim to keeping the top of the hedge level. Whether shearing by hand or machine, it is still essential to take out the dead wood and let the sunshine into the interior of the shrub.

Potential Hazards

Since St. Louis is on the very edge of the cultivation zone for boxwood, keep an eye out for signs of "winterburn," where plants are burned by cold, dry northwest winter winds and leaves turn brown. Promptly trim off all tips that show signs of this condition. If the plant has sectional burn, you may need to cut down the branch all the way to the base and new growth will be slow. Total winterburn is extreme and the shrub has only a 50/50 chance of survival. Practice Dan's "hard love pruning" and cut the entire plant back to just a few stubs in late March/early April before there is any new growth. If you're lucky, the boxwood may rejuvenate from the base, utilizing the established root system. The best defense against winterburn is to select specimens hardy for St. Louis and plant them in appropriate locations.

As for pests, boxwood leaf miner emerges in spring when the forsythias are in bloom. Other pests include mites, which cause stippling of the leaf, and psyllids, which cause the leaves to curl inward. If the infestation is too great to be simply cut off the plant, an application of the systemic insecticide Marathon around the drip line in fall can help, along with the use of summer or dormant oils.

PHOTO BY JJ LANE

Remembering Chuck Freeman

The late Charles Wolcott "Chuck" Freeman was a renowned landscape designer whose work was featured in *Southern Living* and *Saint Louis* magazine, among others. He served as a consultant to the Missouri Botanical Garden on the creation of the Blanke Boxwood Garden, and it is there, in a scenic gazebo overlook, he is memorialized. The elegant seating was donated in honor of Mr. Freeman by his family and friends.

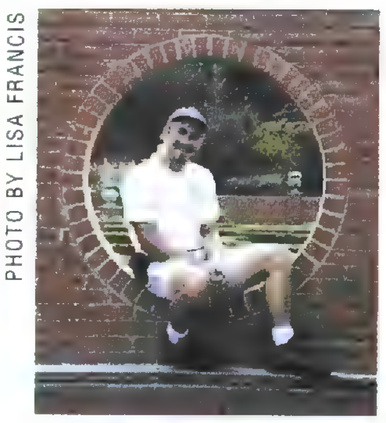


PHOTO BY LISA FRANCIS

Dan Moses

A native of Pacific, Missouri, Dan Moses has worked in landscaping since he was 15 years old. He joined the Garden in the early 1990s during the construction of the Kemper Center for Home Gardening, and was asked to oversee the Boxwood Garden in 1995. "When I started here, this garden was just brick paths," he says, laughing. Dan is active with the Boxwood Society of the Midwest. For more information, call (314) 771-7829.

the website...www.mobot.org

Plant Finder: Cultural information on over 2,000 plants growing in the Kemper display gardens.

Find-A-Plant: Search the living plant database to find what plants are growing in the Garden and where.

Gardening Help: Information on over 300 gardening topics, including all Hortline messages.

Integrated Pest Management: Diagnostic and control measures for nearly 100 of the most common insect, disease, and environmental problems encountered in Missouri.

Plants of Merit: Plants selected by local horticulturalists with outstanding qualities for dependable performance in the region.

Plants in Bloom: Updated weekly at the Garden, along with current photos, updated biweekly.

GARDEN GATE SHOP

4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.

HOLIDAY SALES

Nov. 3–7, Dec. 8–12
Take 20% off your holiday shopping! The Tower Grove Auxiliary will provide gift wrapping services, all proceeds to benefit the Tower Grove House.

HOLIDAY HOURS

Open every day except Thanksgiving, Christmas, and New Year's Day. Special evening hours: open until 8 p.m. on Thursdays and Fridays from November 26 to December 23. The shop will be closed January 3–5 for inventory and cleaning.

PHOTO BY JUSTIN VISNESKY

Garden Gate Shop buyer Jennifer Kuykendall models a jewel-toned poncho made of 100% recycled silk. Each poncho is a unique, hand-knitted work of art. The whimsical handbag is made from 100% sheep's wool felt and comes in a variety of fun shapes and sizes.

SPECIAL EVENTS

Nov. 9 Jeff Guinn will sign his book, *The Autobiography of Santa Claus,* 1 p.m.

Nov. 11 Barbara Lawton signs her new book *Hibiscus: Hardy and Tropical Plants for the Garden.* 11 a.m. to 1 p.m.

Nov. 13 Story time featuring *The Polar Express.* Kids who attend will get a little something to help them ring in the season. 11 a.m.

Nov. 20 Steven Carroll signs his book *Ecology for Gardeners.* 11 a.m. to 1 p.m.

Dec. 4 & 11 Back by popular demand! Dramatic reading by Sarah Krech of *The Little Engine that Could.* Sign language interpretation by Eric Driskill during the Dec. 4th performance. 11 a.m. and noon

Dec. 4 Jack Jennings will sign copies of *Seasons* and the Missouri Botanical Garden 2005 Calendar. 11 a.m. to 1 p.m.

Nov. Artist of the Month:
Vickie Kearns

Food Tastings every Wednesday, noon to 3 p.m. Thursday, December 9 and 16 from 5 to 8 p.m.

Trunk Shows, 10 a.m. to 5 p.m., 5 to 8 p.m. on Fridays between Thanksgiving and Christmas

Nov. 13–14	Silver Cat
Nov. 20–21	In the Bag
Nov. 27–28	Del Sol
Dec. 4–5	Shelly Solomon
Dec. 11–12	Silver Cat
Dec. 18–19	In the Bag

TRIBUTES

July–August 2004

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

in honor of

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Mr. Charles D. Mueller

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Captain and Mrs. Patrick J. Ober
Mr. and Mrs. Anthony Sutberry
John and Terri Walthall
Tom and Marcia Wirth

* deceased

PHOTO BY DIANE WILSON

Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, at (314) 577-9455 for further information and a complimentary brochure. Visit our informative new website at www.mobot.org. Click on Membership, then Planned Giving Guide.

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MEMBERS' ENTRY COURT

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from July 15, 2004 through September 15, 2004.

bronze signature bricks

Bob and Judy Glasscock
Mr. Robert Glasscock

Emmalyn Quick
Mr. William Quick

Thomas E Quick
Mr. William Quick

Julie Ross
Mr. Dan Gottl

Theodore and Kathryn Schwink
Mrs. Susan Draper

Homer and Maxine Umfleet
Mrs. Patricia Dasho
Ms. Joan Durham
Ms. Peg Rogers

engraved clay bricks

George and Pava Bauman
Mr. Bill Bauman

Gene Bryant Sr
Mr. Gene Bryant

Doris M Cook
Mrs. Mary Ann Fink

John F Cook
Mrs. Mary Ann Fink

Barbara and Roger Dierberg
Mr. and Mrs. Sam Grazziano
Mr. and Mrs. John Mattingly

Julie Ditto
Mr. Joe Ditto

Michael Stuart Dunn
Mr. and Mrs. Richard Humphrey

Ann and Neil Ewing
Mr. and Mrs. John E. Petersen
Mr. John J. Petersen
Mr. and Mrs. Dominic Rossi

Sheri Ewing
Mr. and Mrs. John E. Petersen
Mr. John J. Petersen
Mr. and Mrs. Dominic Rossi

Thomas R Fischer
Mrs. Sandra Fischer

Leona Huetter
Mr. and Mrs. Chuck Huetter

George Vicki Melissa Ibera
Mr. George Ibera

Gail and Herb Jacobus
Mr. and Mrs. Herb Jacobus

Debra Marie Johnson
Mrs. Denise Hoelscher

Judy Kay Johnson
Mrs. Carrie Hanks

Mert Kates
Mr. and Mrs. Larry Austin
Mr. and Mrs. Francis Buehler
Mr. and Mrs. Ronald De Greeff
Mr. and Mrs. William Davis
Mr. and Mrs. James Greening
Ms. Sandra Haas
Mr. and Mrs. James Hogenmiller
Ms. Heather Krena
Ms. Susan Piccione
Mr. and Mrs. Larry Smallen
Ms. Susan Tartanian
Mr. and Mrs. Alan Weber
Mrs. Jocelyn Jones-Waller

Vivian Doris McGaughey
The McGaughey Family

Boots Monnig
Mr. Louis Monnig

Janet Parsons
Ms. Donnis Casey

Melody and Bernard Pegis and Family
Dr. Ralph Olliges

Margaret Poelker
Mr. Kenneth Poelker

Teddy Poe
Mr. Earl Poe III

Teddy Poe
Mrs. Maggie Bayer
Ms. Mary Dunker
Ms. Janet Herrmann
Ms. Patricia Kearney
Ms. Jessie Munson
Mr. and Mrs. James Ruhl
Ms. Colleen Rohm
Ms. Hallie Ruhl
Mr. and Mrs. Walter Schmieder
Ms. Carrie Tallon
Ms. Penny Terry
Ms. Sarah Terry

Alice and Richard Robinson
Mr. Richard Robinson

Mary Rygelski
Ms. Karen Darby
Mrs. Pat May
Mr. Mike Rygelski
Mr. Paul Rygelski

Noah James Sandfort
Mr. and Mrs. James Sandfort

Nickolas J Schoemehl
Anonymous

Ione Seitz
Mr. and Mrs. Chuck Huetter

Nancy L Adams Tjaden
Mr. Scott Tjaden

Anita and Ray Tonn
Mr. Chris Patt

Rita A Tornetto
Mr. Dennis Tornetto

Mian Abdul Wahid
Mr. Louis Williamson

Sandra and Steve Wernet
Dr. Ralph Olliges

Missouri Botanical Garden Library
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EVENTS CALENDAR OF

PHOTO BY ELLEN FLESCH

It's a Wrap

Wrap up your holiday shopping with a gift of the Garden. This holiday season, take 20% off regular and senior memberships prices during the holiday sales in the Garden Gate Shop. On November 3–7 and December 8–12, you can purchase a $60 membership for $48 or a $55 senior membership for $44. As a special gift you will receive a Garden fleece muffler! (Discounts apply to on-site sales only.) To inquire about a gift membership, call (314) 577-5118 or visit the Membership Service Desk near the ticket counter.

Closings

Spink Gallery will be closed for renovations until January.
Tower Grove House continues to be closed for reinterpretation.
Trams do not run during winter months of December, January, and February.

November

Register now for classes and tours
at the Missouri Botanical Garden for adults and families. Log on to www.mobot.org/gardeninghelp for the listing, or call (314) 577-9441.

Register now for "Garden Buds."
Explore the beauty and natural wonders of the Garden with your four- to five-year old. Call (314) 577-9506 for information.

Wed., Nov. 3 through Sun., Nov. 7
Garden Gate Shop's first holiday sale. Members receive 20% off everything in the store.

Sun., Nov. 7
Classic 99's "From the Garden, Live"® presents Johnnie Johnson. Free. Call (314) 725-0099 for ticket information. Noon. RC.

Mon., Nov. 8
Tower Grove House Auxilliary autograph party. See page 6.

Tues., Nov. 9 & 16
"Gourmet in the Garden: Wild Game Dinner." See page 6.

****Thurs., Nov. 11**
Members' Day: Deck the Halls. See page 6.

Sat., Nov. 13
Metropolitan St. Louis African Violet Society auction. 9 a.m. to 4 p.m. RC.

Sun., Nov. 14
Classic 99's "From the Garden, Live"® presents Klezundheit! Free. Call (314) 725-0099 for ticket information. Noon. RC.

Thurs., Nov. 18
Evening at EarthWays Home: "Conversations on Energy Costs" featuring representatives of coal, petroleum, natural gas and electrical industries. 7 to 9 p.m. Free. Pre-registration is required; call (314) 577-0220. EH.

Fri. & Sat., Nov. 19 & 20
Tour the EarthWays Home, a Victorian house renovated to demonstrate energy-efficient materials, systems and practices. Tours at 10 a.m., 11 a.m., noon, and 1 p.m. $2 (free for members). EH.

Sun., Nov. 21
Classic 99's "From the Garden, Live"® presents Saint Louis Symphony Orchestra's Brass Quintet. Free. Call (314) 725-0099 for ticket information. Noon. RC.

Wed., Nov. 24, 2004 through Jan. 2, 2005
"Gardenland Express: Vintage St. Louis" holiday flower and train show with holiday wreath display. See page 7.

December

****Wed., Dec. 1**
Members' Preview of Gardenland Express 2004: Vintage St. Louis. See page 6.

Mon., Dec. 1, 8 & 12
"Camp Bug A Loo: Nature's Alphabet A-H."
A nature-themed program for pre-schoolers at the Butterfly House. Pre-registration is required; call (636) 530-0076, ext. 13.

****Sat., Dec. 4**
Members' Event: Breakfast with Santa. See page 6.

Sun., Dec. 5
Chanukah: Festival of Lights. See page 7.

Wed., Dec. 6 & Wed., Dec. 15
Tower Grove House Auxilliary luncheons. See page 6.

Tues., Dec. 7
Tower Grove House Auxilliary holiday lights bus tour and dinner. See page 6.

Wed., Dec. 8 through Sun., Dec. 12
Garden Gate Shop's second holiday sale. Members receive 20% off everything in the store.

****Sat., Dec. 11**
Members' Event: Holiday Concert. See page 6.

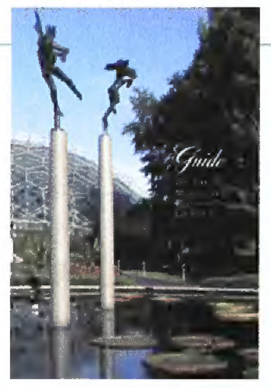
Sat. & Sun., Dec. 11 & 12
"Santa Weekend." See page 7.

Sun., Dec. 12
Classic 99's "From the Garden, Live"® presents The Bach Society of St. Louis. Free. Call (314) 725-0099 for ticket information. Noon. RC.

Fri. & Sat., Dec. 17 & 18:
Tour the EarthWays Home, a Victorian house renovated to demonstrate energy-efficient materials, systems and practices. Tours at 10 a.m., 11 a.m., noon, and 1 p.m. $2 (free for members). EH.

Sat., Dec. 25 closed Christmas Day.

Wed., Dec. 29
"Kwanzaa: Festival of the First Fruits." See page 7.



The *Garden Guidebook* is now available

With beautiful, full-color photos throughout, the new *Guidebook* is both a lovely souvenir of your visit to the Garden, as well as a source of the most complete, up-to-date information available on the Garden's buildings, collections, and history. $9.95. Exclusively at the Garden Gate Shop.

the key

CA = Cohen Amphitheater	GGS = Garden Gate Shop	MC = Monsanto Center	SP = Spink Pavilion
CL = Climatron	JG = Japanese Garden	RC = Ridgway Center	** denotes a members-only event.
EH = EarthWays Home	KC = Kemper Center	SNR = Shaw Nature Reserve	$ denotes an additional fee.

All events are free with admission or membership unless otherwise noted.

WHERE IS IT?

The lower level of the Shoenberg Temperate House features "warm temperate" plants from China, Japan, Korea, and the southeast United States. The Pettus Arbor seen here is a fragrant, sun-dappled retreat covered with vines from China, such as *Clematis armandii, Lonicera alseuoismoides* (a type of honeysuckle), and *Milletia reticulata* with its reddish, wisteria-like flowers. On the ground is *Reineckia carnea*, a lily turf from China, and some fern species, surrounded by gardenias and bamboo.

contact information

Events hotline: *Toll free 1-800-642-8842*	(314) 577-9400
Garden Café: *Daily, 9 a.m. to 5 p.m. (Wed. & Sat. from 7 a.m.)*	(314) 577-5196
Garden Gate Shop: *Daily, 9 a.m. to 5:30 p.m.*	(314) 577-5137
Horticulture Answer Service: *Weekdays, 9 a.m. to noon*	(314) 577-5143
Main switch	(314) 577-5100
Children's Education:	(314) 577-5140
Communications:	(314) 577-0254
Composting Hotline:	(314) 577-9555
Continuing Education:	(314) 577-9441
Corporate Partners:	(314) 577-9495
Development:	(314) 577-5120
Facility Rental:	(314) 577-0200
Group Tours:	(314) 577-0275
Henry Shaw Society:	(314) 577-9495
Library:	(314) 577-5155
Membership:	(314) 577-5118
Planned Gifts:	(314) 577-9455
Senior Programs:	(314) 577-9506
Tribute Gifts:	(314) 577-5118
Volunteer Services:	(314) 577-5187

Garden family

Butterfly House: *15193 Olive Blvd., Faust Park, Chesterfield, MO 63017*	(636) 530-0076
EarthWays Home: *3617 Grandel Square in Grand Center, St. Louis, MO 63108*	(314) 577-0220
Little Shop Around the Corner: *4474 Castleman Drive, St. Louis, MO 63110* *Tues. through Sat., 10 a.m. to 4 p.m; Sun., noon to 4 p.m.*	(314) 577-0891
Shaw Nature Reserve: *Hwy. 100 & I-44, Gray Summit, MO 63039*	(636) 451-3512

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. and until 8 p.m. Thursdays and Fridays from Thanksgiving to Christmas. Parking is free.

Admission
- Free for members
- General admission is $7
  $3 for St. Louis City/County residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County residents.
- Children age 12 and under—free.
- Admission free to St. Louis City/County residents until noon every Wednesday and Saturday throughout the year, (except Chinese Culture Days, Japanese Festival, and Best of Missouri Market).
- Special events may require an additional fee.

Editor: Elizabeth McNulty
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